20. Efficacy	Not applicable
outcomes	
21. Safety outcomes	A total of 108 AEs were reported during the study in 36.7% (88) of subjects. The most common AEs were in the Nervous System Disorders System Organ Class (SOC). Of the 108 reported AEs, 18 (in 16 subjects) were assessed as related to study drugs by the Investigator: 17 were cutaneous in nature (skin irritation and skin burning sensation) and 1 was a headache. Most of the related AEs occurred in subjects in the CD5789 100 μ g/g + BPO 5% group (7 AEs in 6 subjects) and the remaining 11 related AEs occurred in 10 subjects: 3 subjects in the CD5789 50 μ g/g + BPO 2.5% group (2 AEs), 2 subjects in the Zorac 0.1% and Differin 0.1% + BPO 2.5% groups (2 AEs each) and in 1 subject in the CD5789 25 μ g/g + BPO 2.5%, CD5789 25 μ g/g + BPO 5% and Epiduo groups (1, 1, and 2 AEs, respectively). No related AEs occurred in the CD5789 50 μ g/g + BPO 5% treatment group.
	Of the 16 subjects with related AEs, a total of 11 subjects (4.6%) were reported to have related AESIs (11) of skin irritation. There were 2 types of AESI skin irritation reported:
	 Six (6) subjects presented with skin irritation typical of irritative reactions expected with topical retinoids and 4 out of these 6 subjects were part of the treatment group CD5789 100 µg/g + BPO 5%. Five (5) subjects presented with immediate skin type irritancy. Subjects were distributed equally in 5 different treatment groups and the treatment of 4 of these 5 treatment groups was an association of CD 5789 and BPO. These immediate skin type irritancy reactions were not typical of irritative reactions described with retinoids due to the chronology (they started in the first days after application and shortly after the application and they were intermittent and totally reversible in the following hours) and the semiology (the investigator considered that they looked like non immunological urticatia reactions).
	Overall, 12 subjects (5.0%) experienced 12 AEs that led to discontinuation. All of these AEs were cutaneous and related to the study drug except for 1 case of seborrhoeic dermatitis which occurred in the Epiduo treatment group.
	Discontinuations due to AEs were due either to typical retinoid-induced skin irritation or immediate skin type irritancy. Typical retinoid-induced skin irritation was more frequently observed in the CD5789 $100\mu g/g + BPO$ 5% group (4 out of 6 subjects) than in the other treatment groups.
	Five (5) other study discontinuations were due to immediate skin type irritancy and distributed in different groups 1 (3.3%) subject in CD5789 100 μ g/g + BPO 5% group CD5789 25 μ g/g + BPO 5%, CD5789 50 μ g/g + BPO 2.5%, Differin 0.1% + BPO 2.5% and CD5789 25 μ g/g + BPO 2.5%, and none of the subjects in the Zorac, Epiduc and CD5789 50 μ g/g + BPO 5% groups.
	No deaths or SAEs occurred during the study.
22. Summary (conclusion)	In conclusion, CD5789 100 μ g/g + BPO 5% and Zorac 0.1% were the most irritating products. Epiduo was the best tolerated study drug. All the other study drugs CD5789 (25 μ g/g or 50 μ g/g) + BPO (2.5% or 5%) presented a tolerance profile between Epiduo and Zorac 0.1%.

Applicant (Marketing		
Authorization Holder)	(signature)	
	Régis Schulz	
	(full name)	
	GALDER	
	Zöblonvo	a 10

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Zählerweg 10 CH-6300 Zug 058 455 85 00

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period

(clause 4 of Section IV)

	Report on Clinical Studies
1. Name of the	
medicinal	
product	
(marketing	AKLIEF cream 0,005 %
authorization	
number, if	
available)	
2. Applicant	Galderma SA
3.	LABORATOIRES GALDERMA
Manufacturer	ZI Montdesir
	74540 ALBY-SUR-CHERAN
4.6.1	France
4. Studies cond	lucted: $\underline{\mathbf{x}}$ yes \square no if no, to justify
1) type of	
medicinal	
product for	
which the	Medicinal product with complete dossier
registration	
was conducted	
or planned	
5. Full name	RD-03-SPR-18231 - Pharmacokinetics study of CD5789 50 and 100 µg/g cream in
of clinical	Japanese and non-Japanese healthy subjects under maximal use conditions
study, code	superiose and non superiose nearing subjects under maximal use conditions
number of	
clinical study	
6. Clinical	Phase 1 human pharmacology study
study phase	Thase Thuman phannacology study
7. Clinical	Date of first screened: 17 Jan 2013
study period	
	Date of last subject completed: 16 Apr 2013
8. Countries	United States
where clinical	
study was	
conducted	
9. Number of	A total of 20 subjects (12 in each group) were encoded in the study
subjects	A total of 39 subjects (13 in each group) were enrolled in the study.
10. Aim and	The abjective of this study was to access and some the sector's survey of
secondary	 The objective of this study was to assess and compare the systemic exposure of CD5789 after repeated once-daily topical application of CD5789 50 μg/g and 100
	CD5789 after repeated once-daily topical application of CD5789 50 µg/g and 100

Report on Clinical Studies

purposes of clinical study	 μg/g cream in healthy subjects of Japanese and non-Japanese origin for 29 days. This assessment was done through determination of the pharmacokinetic (PK) parameters in healthy volunteers under maximized conditions of use (subjects treated with 2 g of cream on a 1000 cm2 body surface area corresponding to zones potentially affected by acne lesions: face, shoulders, upper back, and upper chest) (Guidance for Industry: Acne Vulgaris: Developing Drugs for Treatment). The study also assessed safety and local tolerability of CD5789 50 μg/g and 100 μg/g cream.
11. Clinical study design	This was a single-center, randomized study in 3 parallel groups. Groups 1 and 2 were double-blind and Group 3 was unblinded:
	 Group 1: CD5789 50 μg/g cream, subjects of Japanese origin Group 2: CD5789 100 μg/g cream, subjects of Japanese origin Group 3: CD5789 100 μg/g cream, subjects of non-Japanese origin
	Japanese origin is defined as all four grandparents were born in Japan. Subjects having 1 to 3 grandparents born in Japan could not be enrolled in the study.
12. Main inclusion criteria	 Key inclusion criteria: Adult male or female healthy subjects aged 18 to 65 years old; Body weight between 45 and 100 kg at the Screening visit; Body mass index (BMI) between 18 and 30 kg/m² at the Screening visit; If female of childbearing potential, the subject agreed to use a highly effective double-barrier contraception method for the duration of the study and at least 1 month after the last product application; If male, the subject agreed to shave the facial treatment area the evening prior to the Day 1, Day 8, Day 15, Day 22, and Day 29/Early Termination visits (when local tolerability was assessed) and agreed to maintain his routine shaving regimen for the duration of the study.
13. Investigational medicinal product, method of administration , strength	CD5789, topical administration, strength: 50 μ g/g and 100 μ g/g
14. Reference medicinal product, method of administration , strength	None
15. Concomitant therapy	Not Applicable
16. Efficacy evaluation criteria	Not Applicable
17. Safety evaluation criteria	Adverse events were to be reported throughout the study. Adverse events with an onset date on or after the date of the administration of the first treatment were classified as treatment emergent.

	 Systemic safety Vital signs (blood pressure, pulse rate) at the Screening, Day 1/Baseline, Day 15, and Day 29/Early Termination visits Physical examination at Screening, Baseline, and end of treatment Routine laboratory parameters (hematology, blood chemistry, urinalysis) at the Screening and Day 29/Early Termination visits Cutaneous safety Local tolerability assessments (erythema, scaling, dryness, pruritus, and stinging/burning on the face only) on a 4-point scale (0 = none to 3 = severe) at the Day 1/Baseline, Day 8, Day 15, Day 22, and Day 29/Early Termination visits.
18. Statistical methods	 The following variables were summarized by descriptive statistics: Demographics and baseline characteristics; PK parameters (if quantifiable data); Physical examination, vital signs (blood pressure and pulse rate); Routine laboratory parameters (hematology, blood chemistry, urinalysis); Cutaneous safety (local tolerability assessments); Adverse events (AEs). If quantifiable, plasma concentration parameters were to be submitted, after logarithmic transformation (Ln), to an analysis of variance, in order to evaluate time and group factors separately. A statistical analysis was performed separately for each treatment group to investigate the time effect. Another analysis was performed separately for each day to investigate the group effect (dose and ethnicity). For both analyses, the Ln of AUC(0-24hr) and Cmax was submitted to an analysis of variance. The model included time, subject, and group as factors. The residual error variance was used to compute 90% confidence intervals of the pairwise differences between time points (Day 1, Day 15, and Day 29) on the Ln scale. The limits of the intervals were back transformed into an exponential to obtain 90% confidence intervals of the original
19. Demographic indicators of the study population (gender, age, race, etc.)	 scale. Of the 73 subjects screened, 39 were included in the Full Analysis (pharmacokinetic) and Safety populations. Reasons for screen failure were inclusion/exclusion criteria not met (17 of 34 screen failures) and "other" (17 of 34 screen failures). A summary of demographic data is provided in Table 1. The mean age of subjects was 41.5 years, ranging from 37.2 to 46.4 across treatment groups. The majority of subjects (71.8%) were male. An equal number of Black/African American subjects and white subjects comprised the non-Japanese group, along with 1 Asian subject. Mean BMI was 24.0 kg/m2, ranging from 23.4 to 24.7 kg/m2 across treatment groups.

Table 1

Demographics and baseline characteristics (safety analysis population)

Age (years) Mean (SD) Median Minimum, maximum Age group (years), n (%) ≤40	CD5 50 µg/g (N=13) 41.0 (13.38) 40.0 23.0, 63.0	100 μg/g (N=13) 46.4 (12.17) 50.0 23.0, 62.0	Subtotal (N=26) 43.7 (12.83) 48.0 23.0, 63.0	CD5789 100 µg/g (N=13) 37.2 (13.06) 36.0 18.0, 58.0	Total (N=39) 41.5 (13.10 40.0
Mean (SD) Median Minimum, maximum Age group (years), n (%)	(N=13) 41.0 (13.38) 40.0	(N=13) 46.4 (12.17) 50.0	(N=26) 43.7 (12.83) 48.0	(N=13) 37.2 (13.06) 36.0	41.5 (13.10 40.0
Mean (SD) Median Minimum, maximum Age group (years), n (%)	40.0	50.0	48.0	36.0	40.0
Median Minimum, maximum Age group (years), n (%)	40.0	50.0	48.0	36.0	40.0
Minimum, maximum Age group (years), n (%)					
Age group (years), n (%)	23.0, 63.0	23.0, 62.0	23.0, 63.0	18 0 58 0	10.0.00.0
				10.0,00.0	18.0, 63.0
<40					
-10	8 (61.5)	3 (23.1)	11 (42.3)	9 (69.2)	20 (51.3)
>40	5 (38.5)	10 (76.9)	15 (57.7)	4 (30.8)	19 (48.7)
BMI (kg/m ²)		L	L		
Mean (SD)	23.8 (2.78)	23.4 (2.19)	23.6 (2.46)	24.7 (3.31)	24.0 (2.78
Median	23.3	23.1	23.2		23.4
Minimum, maximum	20.1, 29.9	19.6, 28.6	and the second se		19.3, 29.9
Sex, n (%)					
Male	8 (61.5)	8 (61.5)	16 (61.5)	12 (92.3)	28 (71.8)
Female	5 (38.5)	5 (38.5)			11 (28.2)
Smoker, n (%)				<u> </u>	. , ,
Yes	0 (0.0)	1 (7.7)	1 (3.8)	0 (0.0)	1 (2.6)
No	13 (100)				38 (97.4)
Ethnicity, n (%)			(, , , , , , , , , , , , , , , , , , ,		
Hispanic or Latino	0 (0.0)	0 (0.0)	0 (0.0)	2 (15.4)	2 (5.1)
Not Hispanic or Latino					37 (94.9)
Race, n (%)			. ,		
Asian	13 (100)	13 (100)	26 (100)	1(7,7)	27 (69.2)
Black or African American	0 (0.0)	0 (0.0)	0 (0.0)	6 (46.2)	6 (15.4)
White	0 (0.0)	0 (0.0)	0 (0.0)	6 (46,2)	6 (15.4)
MI=body mass index; SD=stand					
	Mean (SD) Median Minimum, maximum Sex, n (%) Male Female Smoker, n (%) Yes No Ethnicity, n (%) Hispanic or Latino Not Hispanic or Latino Race, n (%) Asian Black or African American White	Mean (SD) 23.8 (2.78) Median 23.3 Minimum, maximum 20.1, 29.9 Sex, n (%)	Mean (SD) 23.8 (2.78) 23.4 (2.19) Median 23.3 23.1 Minimum, maximum 20.1, 29.9 19.6, 28.6 Sex, n (%)	Mean (SD) 23.8 (2.78) 23.4 (2.19) 23.6 (2.46) Median 23.3 23.1 23.2 Minimum, maximum 20.1, 29.9 19.6, 28.6 19.6, 29.9 Sex, n (%) Male 8 (61.5) 8 (61.5) 16 (61.5) Female 5 (38.5) 5 (38.5) 10 (38.5) Smoker, n (%) Yes 0 (0.0) 1 (7.7) 1 (3.8) No 13 (100) 12 (84.6) 25 (96.2) Ethnicity, n (%) Hispanic or Latino 0 (0.0) 0 (0.0) 0 (0.0) Not Hispanic or Latino 13 (100) 13 (100) 26 (100) Race, n (%) Asian 13 (100) 13 (100) 0 (0.0) 0 (0.0) Black or African 0 (0.0) 0 (0.0) 0 (0.0) 0 (0.0) White 0 (0.0) 0 (0.0) 0 (0.0) 0 (0.0)	Mean (SD) 23.8 (2.78) 23.4 (2.19) 23.6 (2.46) 24.7 (3.31) Median 23.3 23.1 23.2 25.3. Minimum, maximum 20.1, 29.9 19.6, 28.6 19.6, 29.9 19.3, 29.8 Sex, n (%) 19.3, 29.8 Male 8 (61.5) 8 (61.5) 16 (61.5) 12 (92.3) Female 5 (38.5) 5 (38.5) 10 (38.5) 1 (7.7) Smoker, n (%) (0.0) 1 (7.7) 1 (3.8) 0 (0.0) No 13 (100) 12 (84.6) 25 (96.2) 13 (100) 12 (15.4) Not Hispanic or Latino 0 (0.0) 0 (0.0) 0 (0.0) 2 (15.4) Not Hispanic or Latino 13 (100) 13 (100) 26 (100) 11 (84.6) Race, n (%) Asian 13 (100) 13 (100) 26 (100) 1 (7.7) Black or African 0 (0.0) 0 (0.0) 0 (0.

Table 3 Overview of treatment-emergent adverse events (safety analysis population)

	Number (%) of subjects					
		Non-Japanese				
Type of adverse event	CD	5789	Cultural	CD5789		
	50 μg/g (N=13)	100 µg/g (N=13)	Subtotal (N=26)	100 µg/g (N=13)		
Any TEAE	13 (100)	13 (100)	26 (100)	13 (100)		
Any related TEAE	13 (100)	13 (100)	26 (100)	13 (100)		
Any serious AE	0	0	0	0		
Any AESI	0	0	0	0		
Any moderate TEAE	6 (46.2)	8 (61.5)	14 (53.8)	7 (53.8)		
Any moderate related TEAE	5 (38.5)	8 (61.5)	13 (50.0)	6 (46.2)		
Any severe TEAE	0	0	0	0		
Any TEAE leading to discontinuation of study drug	0	0	0	0		

Treatment-related skin irritation was experienced by all 39 subjects (Table 4). Other common treatment-related TEAEs were isolated cases of pruritus or erythema.

Table 4

Treatment-emergent adverse events with a reasonable possibility of relationship to treatment (safety analysis population)

	Number (%) of subjects					
System Organ Class		Non-Japanese				
Preferred term	CD	5789	0.11.1.1	CD5789 100 μg/g (N=13)		
	50 µg/g (N=13)	100 µg/g (N=13)	Subtotal (N=26)			
Any related TEAE	13 (100)	13 (100)	26 (100)	13 (100)		
Injury, Poisoning and Procedural Complications	0	1 (7.7)	1 (3.8)	0		
Scratch	0	1 (7.7)	1 (3.8)	0		
Skin and Subcutaneous Tissue Disorders	13 (100)	13 (100)	26 (100)	13 (100)		
Erythema	2 (15.4)	1 (7.7)	3 (11.5)	1 (7.7)		
Pruritus	2 (15.4)	4 (30.8)	6 (23.1)	0		
Skin burning sensation	1 (7.7)	0	1 (3.8)	0		
Skin irritation	13 (100)	13 (100)	26 (100)	13 (100)		

The TEAE profile of the 2 Japanese treatment groups was generally similar, with the exception that there was a 2-fold greater incidence of treatment-related pruritus at the higher CD5789 dose compared with the lower CD5789 dose and a 2-fold greater incidence of treatment-related erythema at the lower dose compared with the higher dose. In addition, treatment-related TEAEs considered by the investigator to be moderate in severity (mostly skin irritation) were experienced by a greater percentage of subjects in the CD5789 100 μ g/g cream group than in the CD5789 50 μ g/g cream group.

The TEAE profile of the Japanese CD5789 100 μ g/g cream and non-Japanese CD5789 100 μ g/g cream subjects was generally similar, with the exception that 4 (30.8%) Japanese subjects experienced treatment-related pruritus compared with no non-Japanese subjects. In addition, treatment-related TEAEs considered by the investigator to be moderate in severity (mostly skin irritation) were experienced by a greater percentage of subjects in the Japanese 100 μ g/g cream group than in the non-Japanese 100 μ g/g cream group.

- Local tolerability

Local tolerability (erythema, scaling, dryness, pruritus, and stinging/burning on the face) was assessed on a 4-point scale before the study drug application at baseline and Days 8,

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period (clause 4 of Section IV)

Report on Clinical Studies				
1. Name of the medicinal product (marketing authorization number, if available)				
2. Applicant	Galderma SA			
3. Manufacturer	LABORATOIRES GALDERMA ZI Montdesir 74540 ALBY-SUR-CHERAN France			
4. Studies conducted:	$\overline{\mathbf{x}}$ yes \Box no if no, to justify			
1) type of medicinal product for which the registration was conducted or planned	Medicinal product with complete dossier			
5. Full name of clinical study, code number of clinical study	RD-06-SRE-40187E - Exploratory study to investigate the effect of CD5789 on the physiopathology of acne scarring in scar prone and non scar prone acne patients			
6. Clinical study phase	Phase 1			
7. Clinical study period	Date of first subject screened: 19 November 2012 Date of last subject completed: 22 July 2013			
8. Countries where clinical study was conducted	France			
9. Number of subjects	28 subjects were eligible (20 acne subjects and 8 healthy subjects with no history of acne). Out of the 28 subjects, 1 acne subject failed screening due to inclusion/exclusion criteria not met. A total of 27 subjects were included in the intent-to-treat (ITT) and Safety populations. Due to a major protocol deviation, 1 scar prone subject was excluded from the per protocol (PP) population.			
10. Aim and secondary purposes of clinical study	Primary objective: to investigate the involvement at the transcriptomic and proteomic levels of markers implicated in signaling pathways of immunity in acne scaring.			
	Secondary objectives:			
	- To evaluate the modulations induced by a new therapeutic agent (CD5789) on the pathway and markers previously selected;			

	 To determine the correlation between the sub-types of P. acnes and the development of scars or not.
11. Clinical study design	This was an exploratory, controlled, non-randomized, open prospective, monocentric study involving 19 subjects with moderate inflammatory acne on the back (10 scar prone [i.e. with ≥ 20 scars of ≥ 1.5 mm] and 9 non scar prone [i.e. with ≤ 3 scars of ≥ 1.5 mm]) and 8 healthy subjects who neve suffered from acne as control. This study comprised the following periods:
	 For acne subjects: screening period (Day -15 to Day 1), pre-treatment period (Day -3 to Day -1), treatment period (Day 0 to Day 27) and follow-up visit (10 days [± 3 days] after the last product application, Day 37) for acne subjects; For healthy subjects: screening period (Day -15 to Day -1), Day 0 and follow-up visit (Day 11) for healthy subjects.
	During the screening period, 2 different areas were defined on the back of both acne and healthy subjects. In addition, during the screening period, the Investigator:
	 Conducted physical examination and checked vital signs; Took blood samples for virology, hematology and blood chemistry; Performed a urinary pregnancy test; Performed a urinalysis.
	Visits for healthy subjects
	On <u>Day 0</u> , 2 biopsies of normal skin were performed on each side of the subject's back. Suture was performed to close the wounds. The biopsies (explants) were immediately immersed in formol (for histology and immunohistochemistry analyses) and in ribonucleic acid (RNA) later buffer for 16 hours at 4°C before freezing them at -80°C (for transcriptomic analyses).
	On <u>Day 11</u> (follow-up visit), suture of biopsy areas were removed and the safety assessments were performed. The Investigator:
	 Removed the sutures of biopsies; Questioned subjects about the occurrence of adverse events (AEs) and any change on concomitant therapies; Conduced physical examinations and checked vital signs.
	Visits for acne subjects
	During the pre-treatment period ($\underline{\text{Day}} - 3 \text{ to } \underline{\text{Day}} - 1$) at least 2 papules (1 on each area of the back) were identified to ensure that two 48-hour old papules could be selected on Day 0.
	During a 4-week treatment period the treatment was applied (avoiding the biopsy areas) at the study center, once daily, 5 days per week (every day except Saturday and Sunday) except

	the last day (<u>Day 27</u>) when no drug was applied. A total of 19 applications were performed.
	On <u>Day 0</u> , 4 biopsies were performed on the 2 areas defined on the subject's back before study drug application: 2 biopsies of inflammatory papules (i.e. involved skin) and 2 of apparently normal skin without acne (i.e. non-involved skin). Suture was performed to close the wounds. Healing of biopsies was monitored every day during site visits until suture removal on Day 11.
	On <u>Day 0</u> , bacteriological samplings before study drug application was taken for P. acnes strains determination on 4 different inflammatory papulo-pustular lesions.
	From Day 4 to Day 6, at least 4 papules were identified in order to select on Day 7 or Day 8, four 48-hour old papules (2 on each area of the back).
	On <u>Day 11</u> , the suture of the biopsies done on Day 0 was removed.
	On <u>Day 27</u> , 4 biopsies were performed from 4 resolved inflammatory papules already identified on Day 7 or Day 8: 2 biopsies of "resolved papules" treated with CD5789 0.005% cream and 2 of "resolved papules" treated with CD5789 vehicle cream. Suture was performed to close the wounds.
	All biopsies (explants on Days 0 and 27) were immediately immersed in formol (for histology and immunohistochemistry analyses) and in RNA later buffer for 16 hours at 4°C before freezing them at -80°C (for transcriptomic analyses).
	In total, 8 biopsies (3 mm diameter punch) were performed per acne subject.
	In acne subjects, standardized digital photographs were taken:
	 Of the whole back on Days -3, -2, -1, 0, 4, 5, 6, 7, 8, 15, 22 and 27; Of the targeted papules on Days 0, 7, 8, 15, 22 and 27.
12. Main inclusion criteria	The study population comprised female or male subjects with moderate inflammatory acne (i.e. with "Echelle de cotation des lésions d'acné" [ECLA] score between 2 and 4 for the whole back, with at least one area scored at 2 and with a maximum of 3 nodules). Acne subjects werescar prone (i.e. with ≥ 20 scars of ≥ 1.5 mm on the back) or non scar prone (i.e. with ≤ 3 scars of ≥ 1.5 mm on the back) and had to exhibit at least two 48-hour old papules at Baseline (Day 0). Healthy female or male subjects, with no acne history, were included as control.
13. Investigational medicinal product, method of administration, strength	CD5789, cream, topical administration, strength: 0.005%
14. Reference medicinal product, method of administration, strength	Comparator: cream, topical administration, strength: Not Applicable
15. Concomitant therapy	Not Applicable

16. Efficacy evaluation criteria	Primary and secondary endpoints
	Difference in the expression of biomarkers of cutaneous immunity evaluated at the transcriptomic and proteomic levels between scar prone and non-scar prone subjects. Large-scale and focused transcriptomic analyses were performed to compare expression of messenger RNA (mRNA) in scar prone subjects versus non scar prone subjects. Large-scale analyses were conducted using Affymetrix technology. Focused analyses were conducted to study the gene expression of markers used in the proteomic analysis (see below) using quantitative reverse transcription polymerase chain reaction (qRT-PCR). At proteomic level, an immunohistochemistry analysis was performed to assess the expression of the following markers: interleukin (IL)-1, IL-2, IL-6, IL-8, IL-10, tumor necrosis factor alpha (TNF α), matrix metalloproteinases (MMP)-1, -9, -3, -13, tissue inhibitors of metalloproteinases (TIMP)-1, -2, toll-like receptor (TLR)2, TLR4, peroxisome proliferator-activated receptor (PPAR), fibroblast growth factor (FGF), transforming growth factor beta (TGF β), insulin-like growth factor 1 (IGF1), human beta-defensin-2 (hBD2), Smad 3/4, SKI proto-oncogene (cSKI), activator protein 1 (AP1; cJUN subunit).
	Modulations induced by a new therapeutic agent (CD5789 0.005% cream) on these same markers both at the transcriptomic and proteomic levels after 27 days of topical application on inflammatory papules in scar prone and non-scar prone subjects.
17. Safety evaluation criteria	 AEs, recorded at each visit; Local tolerance for acne subjects, recorded at each visit during the treatment period and 10 days ± (3 days) after the last product application (i.e. follow-up visit, Day 37); Physical examination and vital signs, recorded at Screening, Day 0 for all subjects, Day 11 for healthy subjects only, and Day 27 and 10 days (± 3 days) after the last product application (i.e. follow-up visit, Day 37) for acne subjects only; Laboratory safety tests, recorded at Screening for all subjects only.
18. Statistical methods	Transcriptomic analyses included the following type of biopsy samples:
	- Healthy skin;
	And from scar and non-scar prone subjects:
	 Non-involved skin; Papule less than 48 hours of age; "resolved papules" with CD5789 vehicle cream treatment on Day 27; "resolved papules" with CD5789 0.005% cream on Day 27.

The following were the main comparison for transcriptomic analyses:

-	Non-involved skin in non-scar prone subjects and scar
	prone subjects versus normal skin in healthy subjects:

- Papule less than 48 hours of age versus non-involved skin in scar prone and non-scar prone subjects;

-	Comparison	of	papules	less	than	48	hours	of	age
	between scar	- ar	nd non-sc	ar-pr	one su	ubje	cts;		C

- Papule from area of the back treated with CD5789 vehicle cream on Day 27 versus papule less than 48 hours of age in scar prone and non-scar prone subjects;
- Papule from area of the back treated with CD5789 vehicle cream on Day 27 versus non-involved skin in scar prone subjects;
- Papule from area of the back treated with CD5789 0.005% cream on Day 27 versus papule from area of the back treated with CD5789 vehicle cream on Day 27 in scar prone and non-scar prone subjects.

For intergroup analyses, an analysis of variance (ANOVA) model was used, then the Tukey multiple comparison test was done to assess the significance of the comparison for all probe sets. The resulting p values were adjusted to test multiplicity by controlling the false discovery rate (FDR), using the Benjamini-Hochberg correction. The subject effect was included in the ANOVA model as random effect for the comparison within subjects.

A non-supervised analysis was performed independently to assess the significance of contrasts and identify most discriminated markers on global basis. This analysis (nonnegative matrix factorization [NMF]) was done, but due to lack of informative results, data are not shown in this report.

Demographics and Baseline data, and safety data were descriptively summarized. AEs were tabulated by study treatment in frequency tables by system organ class (SOC) and preferred term (PT).

19. Demographic indicators of the study population (gender, age, race, etc.)	All subjects were White with a mean \pm standard deviation (SD) age of 26.48 \pm 4.55 years. Overall, the majority of subjects were males (17 [62.96%]), in particular all scars prone subjects were males. At Screening, mean \pm SD height and weight were 174.0 \pm 7.73 cm and 69.68 \pm 14.06 kg, respectively, with no major differences across acne and healthy subjects.
	Family history of scarring, ECLA score (overall ranging from 1 to 2) and number of nodules (overall ranging from 0 to 2) were similar in scar prone and non-scar prone subjects.
20. Efficacy outcomes	Large-scale transcriptomic analyses

Transcriptomic analyses conducted to investigate the molecular mechanisms leading to scar formation showed that: - In non involved skin of scar prone and non scar prone

subjects compared to normal skin of healthy subjects there was a sub-clinical inflammation,

hyperproliferative changes in epidermis and high sebaceous gland activity. This was more pronounced in scar prone subjects than in non scar prone subjects;

- In 48-hour old papules of scar prone and non scar prone subjects compared to non involved skin there was induction of both innate and adaptive immune responses. An analysis of specific markers revealed that macrophages tended to be more numerous and/or activated in non scar prone subjects, while T cells seemed to be more elevated in scar prone subjects;
- In non scar prone subjects, the gene expression profiles of "resolved papules" and non-involved skin were similar, indicating a resolution of inflammation. Conversely, in scar prone subjects, the gene expression profile of "resolved papules" compared to that of noninvolved skin indicated an inflammatory response. This suggests that the inflammatory process lasts longer in scar prone subjects than in non scar prone subjects;

In scar prone subjects, the gene expression profile of "resolved papules" compared to that of non-involved skin indicated a decrease in lipids metabolism markers (specific of the sebaceous gland) as well as a strong signature of dermal remodeling that could correspond to the destruction (at least partial) of the pilosebaceous unit and dermal damage.

Overall, these results indicate that in scar prone subjects, scarring might be a consequence of damage caused by a persistent inflammation occurring in the sebaceous follicle, leading to its destruction. Presumably, the repair of the destroyed area with remodeling of granulation tissue is not able to restore the initial tissue volume, leading to atrophic scars.

Transcriptomic analyses conducted to investigate the potential therapeutic impact of CD5789 on the molecular mechanisms leading to scar formation showed that:

- Based on hierarchical clustering, CD5789 0.005% cream did not affect inflammatory lesions, which were still observed in scar prone acne subjects;
- Analysis of the gene set specifically modulated by CD5789 0.005% cream demonstrated a common biological response between the two populations of acne subjects, although CD5789 0.005% cream had a more pronounced effect on the non scar prone population (higher number of modulated genes and stronger modulation level);
- The analysis of altered processes identified expected retinoid effects, namely anti keratinizing and proliferative effect, leading to an accelerated turnover of epidermal cells and modification of epidermal permeability barrier in both populations of acne subjects. On the other hand, an activation of melanogenesis was only noted in the non scar prone population;

	 This large-scale gene expression profiling did not allow us to observe an effect of CD5789 0.005% cream on acne scarring processes.
	Proteomic and focused transcriptomic analyses
	These analyses were conducted by Fiona Jasson as part of her PhD dissertation, under the supervision of Prof. Brigitte Dréno (CHU, Nantes, France).
	Clinical assessment of papule healing
	At the end of the treatment period, no specific effects of CD5789 were noted in terms of papule healing compared to its vehicle.
21. Safety outcomes	Acne subjects:
	In the area of the back treated with CD5789 0.005% cream, erythema and pruritus were reported with similar frequency in scar prone (in 6 [60%] and 7 [70%] subjects, respectively) and non scar prone subjects (in 8 [88.9%] and 7 [77.8%] subjects, respectively). All acne subjects in the area of the back treated with CD5789 0.005% cream, had none or at most moderate signs of erythema and pruritus, except for 1 (5.26%) non scar prone subject who exhibited a severe erythema on Days 22, 25 and 26. Signs of erythema and pruritus were observed starting within the first 11 days of treatment. Overall, in all acne subjects, erythema and pruritus signs worsened during the study reaching a plateau and disappearing 10 days (\pm 3 days) after the last product application (with the exception of signs of pruritus that persisted in 1 non scar prone subject). Of note, mean scores of erythema and pruritus appeared overall lower in scar prone subjects (ranging from 0.10 to 1.10 and from 0.10 to 0.60, respectively) than in non scar prone subjects (ranging from 0.11 to 1.56 and from 0.11 to 1.0, respectively). Signs of burning/stinging were at most mild, were experienced sporadically (by 2 [20%] scar prone and 1 [11.1%] non scar prone subject) and were absent in all subjects 10 days (\pm 3 days) after the last product application.
	In the area of the back treated with CD5789 vehicle cream, signs of erythema and pruritus were at most mild and were experienced sporadically (erythema: by 2 [20%] scar prone subjects and 2 [22.2%] non scar prone subject; pruritus: by 3 [30%] scar prone subjects and 2 [22.2%] non scar prone subjects). In both scar prone and non scar prone subjects, no signs of stinging/burning were noted with CD5789 vehicle cream and no signs of edema were noted either with CD5789 0.005% cream or CD5789 vehicle cream at any time points.
	Overall, 16 AEs were reported in 11 (57.89%) acne subjects during the treatment period. During the course of this study, no serious AEs (SAEs), AEs leading to discontinuation or AEs of special interest were reported.
	All AEs were mild (14 [87.5%]) or moderate (2 [12.5%]) and resolved by the end of the study, with the exception of 1

	(6.25%) event of nasopharyngitis in 1 (5.26%) scar prone subject that did not resolve.
	Of the 16 AEs, 8 (50%) were dermatologic and were reported in 7 (36.84%) acne subjects: 1/8 (12.5%) event of skin hyperpigmentation and 7/8 (87.5%) events of pruritus (in 7 [36.84%] subjects). Pruritus was the most frequently reported dermatologic AE. All AEs of pruritus were related to the study drug and to protocol procedure (i.e. biopsy), resolved by the end of the study and were mild, except 1/8 (12.5%) event that was moderate in 1 (5.26%) non scar prone subject. The AE of skin hyperpigmentation was not related to the study treatment.
	All non-dermatologic AEs reported during the study were not related to the study treatment.
	Overall, frequency of dermatologic AEs was the following: 3/8 (37.5%) AEs in 3 (30%) scar prone subjects versus 5/8 (62.5%) AEs in 4 (44.44%) non scar prone subjects. Non- dermatologic AEs were reported with similar frequency in scar prone (4/8 [50%] AEs in 4 [40%] subjects) and non scar prone subjects (4/8 [50%] AEs in 3 [33.33%] subjects).
	Prior to the treatment period, a total of 5 AEs were reported in 3 (15.79%) acne subjects (4 [80%] AEs in 2 [22.22%] non scar prone subjects and 1 AE [20%] in 1 [10%] scar prone subject). Prior to the treatment period, headache was the most frequently reported AE (1 event in 1 [10%] scar prone subject and 3 events in 2 [22.22%] non scar prone subjects).
	Healthy subjects:
	A total of 8 AEs were reported in 5 (62.5%) healthy subjects. Headache and nasopharyngitis were the AEs reported most frequently in healthy subjects (both in 2 [25%] subjects).
	Overall, there were no clinically significantly abnormal values in terms of urine, hematology and blood chemistry parameters.
22. Summary (conclusion)	In conclusion, scar prone subjects tended to present a long- lasting inflammatory gene profile. The prolonged and severe inflammation observed in scar prone subjects might lead to destruction of sebaceous gland structure, likely followed by inefficient remodeling of granulation tissue and ultimately by atrophic scar formation. There were no remarkable specific effects of CD5789 0.005% cream versus CD5789 vehicle cream in terms of modulation of gene expression and quality of healing.
	Overall, 16 AEs were reported in 11 (57.89%) acne subjects during the treatment period. During the course of this study, no SAEs or AEs leading to discontinuation were reported. Out of the 16 AEs, 8 (50%) were dermatologic and 8 (50%) were non-dermatologic. Pruritus was the most frequently reported dermatologic AE. All AEs of pruritus were treatment-related, resolved by the end of the study and were mild, except 1 event that was moderate. All non-dermatologic AEs reported during

the study were not related to the study treatment.

Applicant (Marketing		
Authorization Holder)	(signature)	
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to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period (clause 4 of Section IV)

1. Name of the medicinal product AKLIEF cream 0,005 % (marketing authorization number, if available) Galderma SA 2. Applicant LABORATOIRES GALDERMA 3. **ZI Montdesir** Manufacturer 74540 ALBY-SUR-CHERAN France 4. Studies conducted: X no if no, to justify yes 1) type of medicinal product for which the Medicinal product with complete dossier registration was conducted or planned 5. Full name RD-03-SRE-18250 - A long-term safety and efficacy study of CD5789 50 µg/g cream in of clinical subjects with acne vulgaris study, code number of clinical study 6. Clinical Phase 3 study phase 7. Clinical Date of first screened: 23 February 2015 study period Date of last subject completed: 23 February 2017 8. Countries United States – Germany – Hungary – Czech Republic where clinical study was conducted 9. Number of A total of 455 subjects were enrolled in the study, of whom 453 were treated with subjects CD5789 50 µg/g. 10. Aim and The primary objective of the study was to determine the safety of CD5789 50 μ g/g cream secondary in the long-term treatment (up to 52 weeks) of subjects with acne vulgaris. Efficacy was

Report on Clinical Studies

purposes of	analysis discovered and the state
clinical study	evaluated as secondary objective.
11. Clinical study design	Multi-center, open-label, non-comparative, long-term safety study.
12. Main inclusion criteria	Male or female subjects aged ≥ 9 years at Screening visit. Subjects were to have moderate facial acne (Investigator's global assessment [IGA] = 3, and a minimum of 20 inflammatory lesions and 25 non inflammatory lesions on the face at Screening and Baseline visits. Subjects were to have moderate truncal acne (Physician global assessment [PGA] = 3), and a minimum of 20 inflammatory lesions and 20 non inflammatory lesions on the shoulders, upper back and anterior chest at Screening and Baseline visits. The criteria regarding truncal acne were optional for subjects aged 9-11 years.
13. Investigational medicinal product, method of administration , strength	CD5789, cream, topical administration, strength: 50 µg/g
14. Reference medicinal product, method of administration , strength	None
15. Concomitant therapy	Not Applicable
16. Efficacy evaluation criteria	 IGA and PGA assessments were conducted at Screening, Baseline, and at Weeks 12, 20, 26, 38 and 52/early termination (ET) visits. Efficacy was assessed on the facial region by IGA and on the upper truncal region by PGA. Both IGA and PGA assessments were based on a 5-point scale (ranging from 0 [clear] to 4 [severe]). Subject's self-assessment of facial acne improvement was conducted at Weeks 12, 26 and 52/ET visits – Subjects were to evaluate their facial acne improvement by comparing what they recalled on their disease at the start of the study based on a 6-point scale (ranging from 0 [complete improvement] to 5 [worse]).
17. Safety evaluation criteria	 Local tolerability (erythema, scaling, dryness, stinging/burning) assessments were conducted at each planned visit. Local tolerability was assessed separately on the face and the trunk, using specific 4-point scales, ranging from 0 (none) to 3 (severe). Adverse Event assessment was conducted at each planned and unscheduled visit as appropriate. Laboratory tests: hematology, blood chemistry and urinalysis assessments were conducted at Screening, Week 26 and Week 52/ET visits. Vital signs and physical examination assessments were conducted at Screening,
	Baseline, Week 12, Week 26, Week 52/ET visits, and any unscheduled visit as appropriate.
18. Statistical methods	Baseline, Week 12, Week 26, Week 52/ET visits, and any unscheduled visit as

 IGA and PGA success rate at Weeks 12, 20, 26, 38 and 52 visits. The IGA/PGA success rate was calculated as the number of subjects considered a success (i.e. subjects who had an IGA/ PGA score of "clear" [0] or "almost clear" [1] at that visit and had a grade change [improvement] of at least 2 from Baseline visit) at that visit divided by the number of subjects with IGA/PGA data at that visit. Grade change from Baseline visit of IGA and PGA Weeks 12, 20, 26, 38 and 52 visits. Subject's assessment of facial acne improvement at Weeks 12, 26 and 52/ET visits.
Change from Baseline in DLQI and C-DLQI total and dimensional scores at Weeks 12, 26 and 52/ET visits.
Safety endpoints: see safety evaluation criteria
Analysis populations:
 The Safety Analysis Population (SAF) was defined as all subjects who applied the study drug at least once. The SAF population was used for the analyses of IGA and all safety endpoints, except for the local tolerability parameters on the trunk. The Safety Population for the Trunk (SAFT) was defined as all subjects in the SAF population who also applied the study drug to the trunk region (i.e., upper trunk, middle and/or lower back areas) at least once. The SAFT population was used for the analysis of the local tolerability parameters on the trunk. Safety population for the analysis of PGA (SAFP) was defined as all subjects in the SAFT population with moderate truncal acne at Baseline visit. The SAFP population was used for the analyses of PGA.
Demographic and baseline disease characteristics are presented in Table 1 for the SAF and SAFP populations. Demographics and baseline disease characteristics were similar in the 2 populations. As per protocol definition, the SAFP population included subjects with moderate truncal acne (PGA grade = 3) at Baseline; thus, 9 subjects with PGA grade <3 who were included in the SAF population were excluded from the SAFP population.

Table 1 Demographics and baseline characteristics – SAF population

	SAF population (N = 453)	SAFP population (N = 444)
Age (years)		(11 - 444)
Mean (SD)	18.3 (6.6)	18.4 (6.5)
Median	16.0	16.0
(Min, Max)	(9.0, 54.0)	(9.0, 54.0)
Gender, n (%)	((9.0, 54.0)
Female	226 (49.9)	217 (48.9)
Male	227 (50.1)	227 (51.1)
Race, n (%)		227 (01.1)
White	432 (95.4)	424 (DE E)
Black or African American	12 (2.6)	424 (95.5)
Asian	3 (0.7)	11 (2.5) 3 (0.7)
American Indian or Alaska Native	1 (0.2)	1 (0.2)
Native Hawaiian or Other Pacific Islander	3 (0.7)	3 (0.7)
Multiple	2 (0.4)	2 (0.5)
Ethnicity, n (%)		2 (0.3)
Hispanic or Latino	47 (10.4)	44 (9.9)
Not Hispanic or Latino	406 (89.6)	400 (90.1)
Skin Phototype, n (%)		400 (30.1)
Туре І	13 (2.9)	13 (2.9)
Type II	188 (41.5)	182 (41.0)
Гуре III	184 (40.6)	183 (41.2)
Гуре IV	53 (11.7)	52 (11.7)
Гуре V	7 (1.5)	7 (1.6)
Гуре VI	2 (0.4)	1 (0.2)
Missing	6 (1.3)	6 (1.4)
Baseline IGA Grade, n (%)		0(14)
Clear (0)	0	0
Almost Clear (1)	0	0
Aild (2)	0	0
Noderate (3)	453 (100)	444 (100)
Severe (4)	0	0
Baseline PGA Grade, n (%)		
Clear (0)	4 (0.9)	0
Imost Clear (1)	4 (0.9)	0
fild (2)	1 (0.2)	0

	Moderate (0)	SAF population (N = 453)	SAFP population (N = 444)		
	Moderate (3)	444 (98.0)	444 (100)		
	Severe (4)	0	0		
	Baseline Inflammatory Facial	Lesion Count			
	n Mara (OD)	453	444		
	Mean (SD)	36.9 (15.0)	37.0 (15.1)		
	Median	32	32		
	Min, Max	20, 123	20, 123		
	Baseline Non-Inflammatory Fa	cial Lesion Count			
	n	453	444		
	Mean (SD)	58.2 (36.7)	58.5 (37.0)		
	Median	48	48		
	(Min, Max)	(22, 363)	(22, 363)		
	Baseline Inflammatory Truncal	Lesion Count	(22, 000)		
	n	446	444		
	Mean (SD)	43.4 (28.6)			
	Median	34	43.5 (28.5)		
	Min, Max	0.202	34		
	Baseline Non-Inflammatory Tru	Incal Lesion Count	0, 202		
	n	446			
	Mean (SD)	56.1 (39.5)	444 E6 2 (20 4)		
	Median	45	56.3 (39.4)		
	Min, Max	0, 350	45		
	Max = maximum; Min = minimum; SD	T dendard deviation	0, 350		
	IGA and PGA increased over time and the trunk had a higher success rate compared to the face. The overall success rate (defined as having both IGA and PGA success in the same subject) was 22.0% 26.8% 42.2%				
	subject) was 22.0%, 36.8%, 43.3%, 49.9% and 57.9% at Week 12, Week 20, Week 26, Week 38 and Week 52, respectively.				
	Mean IGA and PGA scores improved (i.e., decreased) over time during the study period, from 3 at Baseline visit to 1.3 (SD = 0.75) for IGA and 1.3 (SD = 0.84) for PGA at Week 52 visit.				
	Subjects who self-reported having a marked or complete improvement of facial acne increased over time, from 166/401 (41.4%) subjects at Week 12 visit to 233/350 (66.6%) subjects at Week 52 visit.				
1. Safety utcomes	Local tolerability At Baseline visit, >80% of the subjects did not exhibit any local tolerability signs/symptoms on the face and >88% on the trunk. During the study period, up to 88.3% of subjects had any worst post-Baseline signs/symptoms on the face (dryness [88.3%] followed by erythema [85.2%], scaling [83.0%] and stinging/burning [69.3%]) and up to 59.2% of subjects had any worst post-Baseline signs/symptoms on the trunk (erythema [59.2%] followed by dryness [57.0%], scaling [48.4%] and stinging/burning [41.9%]). Among subjects with assessments of local tolerability signs/symptoms, the following subjects had highest scores worsened from Baseline graded for face:				
		5.8%) subjects were mild, 111 (2			

- Dryness 195 (43.4%) subjects were mild, 140 (31.2%) moderate, 26 (5.8%) subjects were severe
- Stinging/burning 169 (37.6%) subjects were mild, 95 (21.2%) moderate and 32 (7.1%) subjects were severe.

Mean local tolerability scores were higher for the face than for the trunk for all parameters assessed:

- Face a peak irritation was observed at Week 1 visit, across the local tolerability signs/symptoms, which gradually improved over time.
- Trunk Except for erythema, a peak in irritation was observed at Week 2 for most of the local tolerability signs/symptoms, which were either maintained or improved during the course of the study. For erythema, the peak irritation occurred at Week 4.

Treatment-emergent adverse events (TEAEs)

A total of 218 (48.1%) subjects reported 468 TEAEs. The majority of TEAEs occurred during the first quarter of the study: 249 events in 154 (34.0%) subjects and decreased thereafter (91 events in 68 [17.7%] subjects during the second quarter; 85 events in 62 [16.8%] subjects during the third quarter; 43 events in 36 [10.3%] subjects in the fourth quarter).

The most frequently reported TEAE was nasopharyngitis (in 48 [10.6%] subjects), followed by sunburn (in 27 [6.0%] subjects), application site pruritus (in 23 [5.1%] subjects) and application site irritation (in 22 [4.9%] subjects). Cutaneous TEAEs represented the most common TEAEs (in 107 [23.6%] subjects) and were mostly reported during the first quarter of the study (in 81 [17.9%] subjects). The majority of TEAEs were mild or moderate in intensity (286 events in 111 [24.5%] subjects and 170 events in 98 [21.6%] subjects, respectively). Severe TEAEs were reported in 9 (2%) subjects.

A total of 103 treatment-related TEAEs reported in 57(12.6%) subjects. The majority of treatment-related TEAEs occurred during the first quarter of the study: 80 events in 46 (10.2%) subjects. The most common treatment-related cutaneous TEAEs were application site pruritus (in 21 [4.6%] subjects), application site irritation (in 19 [4.2%] subjects) and sunburn (in 8 [1.8%] subjects), which were mostly observed on treated areas. The majority of treatment related TEAEs were mild (n = 63/103 [61.2%]) or moderate (n = 37/103 [36.0%]); 3/103 (3.0%) events were severe (1 application site irritation, 1 application site pruritus and 1 application site erythema). All of these events resolved during the study.

A total of 16 subjects discontinued the study due to TEAEs. Of these, 13 TEAEs in 13 subjects were related to the study drug and were considered adverse events of special interest (AESIs; 10 events of skin irritation and 3 events of worsening of acne). The remaining three subjects discontinued due to TEAE not related to study drug (1 event of polycystic ovaries and 2 events worsening of acne). Eleven out of 13 AESIs were of moderate intensity, and they all resolved during the study.

A total of 12 serious TEAEs were reported by 10 (2.2%) subjects. None of the serious TEAEs were related to the study drug, none led to permanent discontinuation. There was one pregnancy reported during the study. The pregnancy ended with spontaneous abortion; the outcome was considered as not related to study treatment.

Clinically relevant TEAEs for CD5789 were:

- Skin irritation at application site. Of the cutaneous TEAEs related to the use of CD5789 generally described as skin irritation (in 1 [0.2%]), application site pruritus (in 21 [4.6%] subjects) and application site irritation (in 19 [4.2%] subjects) were the most frequently reported. These events predominantly occurred during the first quarter of the study.
- Skin sensitization, which was reported by 3 subjects as dermatitis allergic (preferred term [PT]). All events occurred on non-treated areas, were assessed as

	 not treatment related, and the etiology remained unknown. Skin pigmentation disorders, which was reported by 2 subjects as application site discolouration (PT) (hyperpigmentation). These events were assessed as not related to study drug, but rather attributed to the inflammation of acne itself (for one event), or due to sequelae from sunburn (for the other event). Sunburn: 36 TEAEs of sunburn were reported by 27 (6.0%) subjects. A total of 28 events were of mild and 8 were moderate intensity, none was severe. Sunscreen was used before sun exposure in 20 cases and not used in 12 cases (for 4 cases the use of the sunscreen was unknown). A total of 9 TEAEs of sunburn in 8 (1.8%) subjects were considered as related to the study drug.
	<u>Clinical laboratory evaluations</u> In general, no clinically meaningful changes in mean values from Baseline to Week 26 and Week 52 for all hematology and blood chemistry parameters were observed. The laboratory parameters remained stable over time.
	There were no remarkable shifts in the hematology or biochemistry parameters from Baseline visit to the last post-Baseline visit, except for mean cell volume and direct bilirubin. These changes were not associated with any clinical sign or symptom and/or changes in associated laboratory parameters, and were considered as non-clinically significant.
	<u>Vital signs</u> Mean changes from Baseline in systolic blood pressure, diastolic blood pressure and pulse rate values were not clinically meaningful and mean values of all vital signs parameters remained stable over time
	<u>Physical examination</u> Abnormal clinical significant findings were observed in few subjects ($n = 14$) and most of them were reported as TEAEs.
22. Summary (conclusion)	CD5789 is a potent topical retinoid with a high specificity to Retinoic Acid Receptor γ agonist receptors. This was a non-controlled, open-label long-term safety study in subjects with facial and truncal acne vulgaris; efficacy was evaluated as a secondary objective.
	CD5789 50 µg/g cream was safe and well tolerated over the course of the 1-year study. The tolerability and safety profile was consistent with the known profile of topical retinoids. The local tolerability profile was better for the trunk than for the face. Most of the TEAEs reported during the study were mild to moderate skin irritation, occurred in the first quarter of the study and resolved during the course of the study. The most frequently reported non-cutaneous TEAE was nasopharyngitis (in 10.6% of subjects). None of the non-cutaneous TEAEs were considered as related to the study drug and most of the events were mild or moderate in intensity. No clinically meaningful changes were observed in laboratory parameters, vital signs, or physical examinations. Systemic exposure after topical application to face and trunk was minimal in the study.
	Over the course of the 1-year treatment, there was clinically meaningful improvement of acne vulgaris on the face and trunk, with IGA and PGA success rates (clear and almost clear) increasing from 26.6% at Week 12 visit to 65.1% at Week 52 visit and from 38.6% at Week 12 visit to 66.9% at Week 52 visit), respectively. Success in the same subject (having both IGA and PGA success in the same subject) increased from 22.0% at Week 12 visit to 57.9% at Week 52 visit. Acne improvement was greater on the trunk than on the face.

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to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period

(clause 4 of Section IV)

1 Norma Cil	Report on Clinical Studies
1. Name of the medicinal	
product	
(marketing	AKLIEF cream 0,005 %
authorization	Archief cream 0,005 %
number, if	
available)	
2. Applicant	Galderma SA
3.	LABORATOIRES GALDERMA
Manufacturer	ZI Montdesir
	74540 ALBY-SUR-CHERAN
4. Studies con	France
4. Studies con	ducted: $\overline{\mathbf{x}}$ yes $\overline{\mathbf{n}}$ no if no, to justify
1) type of	
medicinal	
product for	
which the	Medicinal product with complete dossier
registration	incontential product with complete dossier
was conducted	
or planned	
5. Full name	PD 06 SDE 19214 E 1
of clinical	RD-06-SRE-18214 - Exploratory study to evaluate the safety and efficacy of different
study, code	formulations and concentrations of CD5789 in subjects with acne vulgaris
number of	
clinical study	
6. Clinical	Phase 1 Human Pharmacology study
study phase	Thuse Trumun Thannacology study
7. Clinical	Date of first screened: 11Apr2011
study period	Date of last subject completed: 20Jun2011
8. Countries	
where clinical	United States of America
study was	
conducted	
9. Number of	
subjects	Approximately 60 subjects were to be randomized to ensure that per protocol data of 17 subjects per group were available for evaluation at the end of the study.

10. Aim and	
secondary purposes of clinical study	To evaluate the safety and efficacy of CD5789 in different formulations and concentrations (50 μ g/g gel versus cream B at 25 μ g/g or 50 μ g/g) in subjects with moderate to severe acne vulgaris after 4 weeks of once daily application, 5 days per week.
11. Clinical study design	Exploratory, multi-centre, randomized, investigator blinded, vehicle-controlled study using intra-individual comparison (right versus left) in 3 parallel groups:
	 Group 1: CD5789 25µg/g cream B versus vehicle: subjects were to be treated, with 500 µL of CD5789 25µg/g cream B on one half face and other half face received 500 µL of the vehicle cream. Group 2: CD5789 50µg/g cream B versus vehicle: subjects were to be treated with 500 µL of CD5789 50µg/g cream B on one half face and other half face received 500 µL of the vehicle cream. Group 3: CD5789 50µg/g gel versus vehicle: subjects were to be treated, with 500 µL of CD5789 50µg/g gel versus vehicle: subjects were to be treated, with 500 µL of CD5789 50µg/g gel on one half face and other half face received 500 µL of the vehicle cream.
12. Main	Key inclusion criteria
inclusion criteria	 Male or female subjects aged 18-35 years old, with: Moderate to severe facial acne vulgaris (at least 20 inflammatory lesions and 30 noninflammatory lesions, excluding nose) (Screening and baseline); Investigators' global assessment (IGA) severity grade 3 or 4 (Screening and baseline); Fitzpatrick skin phototype I to IV (Screening).
13.	Cream B:
Investigational	
medicinal	 CD5789, cream, topical administration, strength: 50µg/g CD5789, cream, topical administration, strength: 25µg/g
product, method of	Gel:
administration , strength	- CD5789, gel, topical administration, strength: 50µg/g
14. Reference	- Vehicle product for Cream B, topical administration, strength: Not Applicable
medicinal product,	- Vehicle product for CD5789 gel, topical administration, strength: Not Applicable
method of	e y prese automotive autom, su engui. Not Applicable
administration	
, strength	
15. Concomitant	Not Applicable
therapy	
16. Efficacy	Efficacy measurements
evaluation	
criteria	 Lesion counts: inflammatory lesion count (papules, pustules), non-inflammatory lesion count (open and closed comedones), other acne lesion count (nodules); total lesion count will be calculated as the sum of inflammatory lesions, non-inflammatory lesions and nodules; Investigator and subject efficacy preference at the Final visit (Day 29). Photographic evaluation
	Efficacy criteria

	 Primary efficacy criteria Total acne lesion count and percent reduction at the end of treatment (evaluated clinically). Secondary efficacy criteria Clinical evaluation Inflammatory, non-inflammatory and total acne lesion count as well as percent reduction at each visit per half face; Subject and investigator efficacy preference at the end of treatment. Photographic evaluation: Inflammatory lesions count at each visit; Inflammatory lesions reduction at the end of treatment; Comedones lesions count at each visit; Comedones lesions reduction at the end of treatment; Quantification of Propionibacterium acnes by fluorescence reflectance photograph analysis.
	Other - Cosmetic acceptability.
17. Safety evaluation criteria	 Adverse events recorded at each visit after the Screening visit; Local tolerance assessed on each half-face using a 4-point skin reaction scale at every visit from Baseline (Day 1) to the Final visit (Day 29); Physical examination and vital signs at Screening, Baseline (Day 1) and the Final visit (Day 29); Laboratory safety tests at Screening and the Final visit (Day 29).
18. Statistical methods	Local tolerability scores were summarized using means over time and worst response across visits.
	Adverse events, general physical examination, vital signs, laboratory parameters and cosmetic acceptability questionnaires were summarized by descriptive statistics. Efficacy data were analyzed at each visit for the per protocol population, and for endpoint response in the ITT population (using the last observation of the treatment period carried forward). Lesion counts (inflammatory, non inflammatory and total) as well as percent reduction in lesion counts were descriptively summarized by visit and by treatment received. The bilateral differences between treatments were summarized and analyzed by visit using a Wilcoxon rank signed test. Investigator and subject's preferences were analyzed using a sign test. P. acnes quantification after Ln transformation and their changes from baseline were analyzed using the paired Student's test.
19. Demographic indicators of the study	Eight (8) US centers screened 89 subjects (ranging from 6 to 25 subjects per center). Among these subjects, 59 were randomized: 18 in CD5789 25µg/g cream B versus vehicle, 21 in CD5789 50µg/g cream B versus vehicle and 20 in CD5789 50µg/g gel versus vehicle.
population (gender, age, race, etc.)	Five (5) subjects (1 in CD5789 25 μ g/g cream B versus vehicle, 3 in CD5789 50 μ g/g cream B versus vehicle and 1 in CD5789 50 μ g/g gel versus vehicle) were excluded from the PP population due to protocol deviations.
	Three (3, one in each group) of the 59 randomized subjects discontinued the study prematurely: one due to subject request's in the group CD5789 $25\mu g/g$ cream B versus vehicle, one due to subject request's in the group CD5789 $50\mu g/g$ cream B versus vehicle and one due to not related adverse event in the group CD5789 $50\mu g/g$ gel versus vehicle.

The majority of randomized subjects were white (93.2%) and 61.0% were female. The mean age was 23.1 years (range 18-35).

		-		Rand	lomized	A DECK OF THE OWNER OF THE OWNER OF
		Screened	CD5789 25 µg/g cream B versus vehicle	CD5789 50 µg/g cream B versus vehicle	CD5789 50 µg/g gel versus vehicle	All
Candon		N (%)	N (%)	N (%)	N (%)	N (%)
Gender	N	89	18	21	20	59
	Male	30 (33.7%)	10 (55.6%)	5 (23.8%)	8 (40.0%)	23 (39.0%
	Female	59 (66.3%)	8 (44.4%)	16 (76.2%)	12 (60.0%)	36 (61.0%
	N	89	18	21	20	59
	White	80 (89.9%)	16 (88.9%)	20 (95.2%)	19 (95.0%)	55 (93.2%
Race	Black or African American	5 (5.6%)	0 (0.0%)	1 (4.8%)	0 (0.0%)	1 (1.7%)
	Asian	2 (2.2%)	2 (11.1%)	0 (0.0%)	0 (0.0%)	2 (3.4%)
	Other	2 (2.2%)	0 (0.0%)	0 (0.0%)	1 (5.0%)	1 (1.7%)
Age (years)	N	89	18	21	20	59
	Mean	23.2	22.1	23.5	23.5	23.1
	SD	4.6	5.4	3.9	4.4	4.5
	Median	22.0	20.0	23.0	24.0	22.0
	(Min,Max)	(18,35)	(18,35)	(18,33)	(18,31)	(18,35)
	N	75	18	21	20	59
		6 (8.0%)	0 (0.0%)	3 (14.3%)	1 (5.0%)	4 (6.8%)
		29 (38.7%)	9 (50.0%)	8 (38.1%)	6 (30.0%)	23 (39.0%)
Phototype	III	26 (34.7%)	4 (22.2%)	7 (33.3%)	10 (50.0%)	21 (35.6%)
	IV	12 (16.0%)	5 (27.8%)	3 (14.3%)	3 (15.0%)	11 (18.6%)
	V	1 (1.3%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
	VI	1 (1.3%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
Ethnicity	N	89	18	21	20	59
	Hispanic or Latino	10 (11.2%)	2 (11.1%)	2 (9.5%)	2 (10.0%)	6 (10.2%)
	Not Hispanic or Latino	79 (88.8%)	16 (88.9%)	19 (90.5%)	18 (90.0%)	53 (89.8%)

B. Statistically significant differences were confirmed in the ITT population.

Total lesion	count	V	89 25 µg/g ersus vehi			9 50 µg/g ersus vehi		CD5789	50 µg/g g vehicle	el versus
		Active	Vehicle	A - V	Active	Vehicle	A - V	Active	Vehicle	A - V
Day 04 (177)	T	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)
Day 01 (ITT)	N	18	18	18	21	21	21	20	20	20
	Mean	38.8	36.8	1.9	41.4	41.2	0.2	34.6	35.2	-0.6
	SD	12.2	10.6	7.3	15.1	14.3	8.8	11.6	9.8	5.0
	Median	35.0	34.0	1.0	37.0	36.0	0.0	30.5	32.0	-1.0
	(Min,Max)	(25,63)	(26,61)	(-9,14)	(25,73)	(26,73)	(-12,21)	(25,65)	(24,60)	(-12,9)
	P-value*			0.478		-	0.862			0.650
Endpoint (ITT)	N	18	18	18	21	21	21	20	20	20
(,	Mean	15.7	21.6	-5.9	18.6	25.9	-7.2	18.1	21.7	-3.6
	SD	7.6	11.3	8.5	10.0	13.2	8.4	10.7	8.7	6.1
	Median	15.0	22.0	-5.5	18.0	25.0	-7.0	15.0	21.5	-4.5
	(Min,Max)	(6,32)	(6,45)	(-20,14)	(6,51)	(10,65)	(-21,6)	(0,39)	(4,37)	(-17,11)
	P-value*	-	•	0.010	-	-	<0.001	(-,)	-	0.014
Day 01 (PP)	N	17	17	17	18	18	18	19	19	19
	Mean	39.1	37.5	1.6	42.9	42.3	0.6	35.1	35.7	-0.7
	SD	12.5	10.6	7.4	15.7	15.0	9.2	11.7	9.7	5.1
	Median	35.0	37.0	1.0	39.0	37.5	-0.5	31.0	32.0	-1.0
	(Min,Max)	(25,63)	(26,61)	(-9,14)	(25,73)	(26,73)	(-12,21)	(25,65)	(27,60)	(-12,9)
	P-value*	-		0.634		-	0.991		(21,00)	0.571
Day 29 (PP)	N	17	17	17	18	18	18	19	19	19
	Mean	16.2	22.2	-6.1	18.5	27.1	-8.6	19.1	22.6	-3.5
	SD	7.5	11.3	8.7	10.7	13.9	8.2	10.1	7.8	6.2
	Median	15.0	22.0	-6.0	17.0	25.0	-8.0	15.0	22.0	
	(Min,Max)	(6,32)	(6,45)	(-20,14)	(6,51)	(10,65)	(-21,5)	(8,39)	(10,37)	-5.0
	P-value*		-	0.013		-	<0.001	(0,00)	(10,57)	(-17,11) 0.021

P-value by two-sided Wilcoxon rank signed test

A - V is Active — Vehicle

Table 4 Percent reduction in total lesion count

Percent reduction in total lesion count		CD5789 25 µg/g cream B versus vehicle				9 50 µg/g ersus vehi		CD5789 50 µg/g gel versus vehicle			
		Active	Vehicle	A - V	Active	Vehicle	A-V	Active	Vehicle	A-V	
		N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	N (%)	
Endpoint	N	18	18	18	21	21	21	20	20	20	
(ITT)	Mean	58.7	42.1	16.6	53.6	37.4	16.2	49.1	37.2	11.9	
	SD	16.5	24.5	24.4	18.1	21.4	21.4	22.8	23.9	15.1	
	Median	57.1	37.1	18.3	53.6	38.5	15.5	48.5	38.5	12.4	
	(Min,Max)	(28.1,89.3)	(-36,81.0)	(-27.3,51.8)	(14.8,90.2)	(-25.0,64.7)	(-19.8,55.1)	(6.5,100.0)	(-16.1,83.3)	(-165,46.1)	
	P-value*			0.012			0.003	(,)	(10.1,00.0)	0.002	
Day 29 (PP)	N	17	17	17	18	18	18	19	19	19	
	Mean	57.5	41.0	16.6	56.3	36.2	20.1	46.4	34.8	11.6	
	SD	16.2	24.7	25.2	16.6	22.7	20.2	20.0	21.9	15.5	
	Median	57.1	34.7	18.7	54.4	38.0	21.1	48.1	36.2	12.3	
	(Min,Max)	(28.1,89.3)	(-36,81.0)	(-27.3,51.8)	(250,902)	(-250,64.7)	(-10.7,55.1)	(65,732)	(-16.1,80.0)	(-165,461)	
	P-value*			0.017		1	0.001	(uns, uz)	FIGILIDE	0.004	

* p-value by two-sided Wilcoxon rank signed test A - V is Active – Vehicle

- Secondary efficacy criteria

Inflammatory lesions

A statistically significant difference (p<0.05) in favor of CD5789 50 μ g/g cream B was demonstrated in the inflammatory lesion count at Day 22 and Day29 and at Day29. No significant difference vs the vehicle was observed.

	The percent reduction was statistically significantly higher with CD5789 50 μ g/g in cream B and gel at Day29 compared to vehicle, and reached almost significance for CD5789 50 μ g/g cream B at Day22 (p=0.051).
	 Non-inflammatory lesions
	A statistically significant difference in favor of the active was observed between the active and the vehicle as early as Day08 with CD5789 25 μ g/g cream B and as early as Day15 with CD5789 50 μ g/g cream B sustaining until Day 29. Results in percent reduction from Day01 paralleled these results.
	 Total lesions
	A statistically significant difference in favor of CD5789 50 μ g/g cream B versus the vehicle was observed as of Day22 with. All treatment groups showed a significant difference at the end of treatment. Results in percent reduction from Day01 paralleled these results with a significant difference as of Day15 and throughout the study duration.
	 Subject and investigator preference
	The investigator preferred CD5789 50 μ g/g cream B more than the vehicle in 61.1% subjects (p<0.05; PP population). This correlated with the subject's preference (77.8%; p<0.05; PP population).
	• Cosmetic acceptability
	A total of 52.4% of subjects preferred CD5789 50 μ g/g cream B over the vehicle (28.6%); however, this difference was not statistically significant.
	This results contrast with results for the question "Which product felt best on your skin?"; a statistically significant difference in favor of the vehicle ($p<0.05$) was observed for CD5789 50 µg/g cream B and 25 µg/g cream B.
	No other statistically significant difference between any of the actives and the vehicle was observed.
21. Safety outcomes	Two subjects in each group missed their application due to irritation on the active side. The first occurrence was at Day12 and at Day19 for the CD5789 25 μ g/g cream B group, at Day9 and at Day25 for the CD5789 50 μ g/g cream B group and at Day11 and at Day12 for the CD5789 50 μ g/g gel group.
	The 2 subjects in the CD5789 25 μ g/g cream B missed one application among 20 due to irritation. In the CD5789 50 μ g/g cream B group, one subject missed 2 applications and the other one, 4 and in the CD5789 50 μ g/g gel, one subjects missed one application and the other missed 2 applications.
	The mean number of applications received ranged from 17.9 (CD5789 50 μ g/g cream B group) to 18.9 (CD5789 25 μ g/g cream B group). The theoretical number of applications to be received was 20.
	 CD5789 25 µg/g cream B versus vehicle
	A total of 7 subjects reported 9 AEs. Among these, 6 AEs were related to the treatment (4 with the active: pruritus, skin burning sensation, skin hypopigmentation and skin irritation and 2 with the vehicle: pruritus); all were dermatologic AEs and none was severe. There were neither AESI nor severe or serious AEs reported and none led to treatment discontinuation.

	CD578	CD5789 25µg/g cream B (N= 18)			Vehicle (N= 18)			Total (N= 18)		
	n events	n subj.	% subj.	n events	n subj.	% subj.	n events	n subj.	% subj	
All AEs	7	6	33.3	5	4	22.2	9	7	38.9	
Related AEs	4	3	16.7	2	1	5.6	6	4	22.2	
All dermatologic AEs	4	3	16.7	2	1	5.6	6	4		
Related dermatologic AEs	4	3	16.7	2	1	5.6	6		22.2	
AESI	0	0	0.0	0	0	0.0	0	4	22.2	
All severe AEs	0	0	0.0	0	0	0.0		0	0.0	
Related severe AEs	0	0	0.0	0	0		0	0	0.0	
All serious AEs	0	0	0.0	0	0	0.0	0	0	0.0	
Related serious AEs	0	0				0.0	0	0	0.0	
All AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Deaths	0	0	0.0	0	0	0.0	0	0	0.0	

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: The numbers in the columns cannot be added because a given subject may have reported more than one AE.

- CD5789 50 µg/g cream B versus vehicle

A total of 11 subjects reported 17 AEs. Among these 11 subjects, all reported 16 AEs with the active and 10 reported 12 AEs with the vehicle. Five subjects reported 7 related AEs.

Five subjects reported 6 related events (flushing, headache, skin burning sensation, skin irritation, sunburn) with CD5789 50 μ g/g cream B, 5 were dermatologic and none of those was severe. Two subjects reported one event of headache and one event of pain of the skin with the vehicle.

One subject reported one AESI of headache (non-dermatological treatment-related AEs). There was no serious AE and none led to treatment discontinuation.

One subject treated with CD5789 50 μ g/g cream B got pregnant during the study. The subject gave normal birth to a girl, one week earlier than planned. No malformation or safety issues were reported except a two- day non related respiratory distress at birth with signs consistent with a possible clear fluid inhalation. The baby's follow-up doctor visit at 10 days confirmed that the baby gained weight and had no safety issue including no breath disorder.

CD5789	50µg/g ((N= 21)	cream B		Vehicle (N= 21)			Total (N= 21)	
n events	n subj.	% subj.	n events	n subj.	% subj.	n events	n subj.	% sub

Table 6 Overview of adverse events: CD5789 50ug/g cream B versus vehicle

All AEs	16	11	52.4	12	10	47.6	17	11	52.4
Related AEs	6	5	23.8	2	2	9.5	7		
All dermatologic AEs	6	5	23.8	2	2		1	5	23.8
Related dermatologic AEs	5	4	19.0	2	2	9.5	7	5	23.8
AESI	1					4.8	6	4	19.0
All severe AEs			4.8	1	1	4.8	1	1	4.8
	1	1	4.8	1	1	4.8	1	1	4.8
Related severe AEs	0	0	0.0	0	0	0.0	0	0	0.0
All serious AEs	0	0	0.0	0	0	0.0	0	0	0.0
Related serious AEs	0	0	0.0	0	0	0.0	0	0	0.0
All AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0
Deaths	0	0	0.0	0	0	0.0	0	0	0.0

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: The numbers in the columns cannot be added because a given subject may have reported more than one AE.

- CD5789 50 µg/g gel versus vehicle

A total of 8 subjects reported 10 AEs. Among these 8 subjects, all reported 10 AEs with the active and 7 reported 7 AEs with the vehicle. Four subjects reported related dermatologic AEs: 4 with the active (dermatitis, skin irritation (2 events) and sunburn) and one event of sunburn with the vehicle, none of the events was severe. There was no AESI reported. One subject reported one serious and severe AE (bacterial mastitis) leading to the discontinuation of that subject.

	CD5789 50µg/g gel (N= 20)			Vehicle (N= 20)			Total (N= 20)		
	n events	n subj.	% subj.	n events	n subj.	% subj.	n events	n subj.	% subj.
All AEs	10	8	40.0	7	7	35.0	10	8	40.0
Related AEs	4	4	20.0	1	1	5.0	4	4	20.0
All dermatologic AEs	4	4	20.0	1	1	5.0	4	4	20.0
Related dermatologic AEs	4	4	20.0	1	1	5.0	4	4	20.0
AESI	0	0	0.0	0	0	0.0	0	0	0.0
All severe AEs	1	1	5.0	1	1	5.0	1	1	5.0
Related severe AEs	0	0	0.0	0	0	0.0	0	0	0.0
All serious AEs	1	1	5.0	1	1	5.0	1	1	
Related serious AEs	0	0	0.0	0	0	0.0	0	0	5.0
All AEs leading to discontinuation	1	1	5.0	1	1	5.0	1	1	0.0 5.0
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0
Deaths	0	0	0.0	0	0	0.0	0	0	0.0

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: The numbers in the columns cannot be added because a given subject may have reported more than one AE.

- Cutaneous Tolerance

Clinical irritation was assessed on each half face prior treatment application at every visit starting on Baseline (Day 1). The highest severity scores recorded over time are detailed in Table 8.

Overall, occurrence of erythema, scaling, dryness and stinging/burning were higher on the active-treated side than on the vehicle-treated side. Results from active side were comparable between the 3 groups. Somewhat more subjects treated with CD5789 50 μ g/g gel had more worst scores for irritation signs and symptoms reported than those treated with the creams.

			CD5789 25µg/g cream B versus vehicle		CD5789 50µg/g cream B versus vehicle		CD5789 50µg/g gel versus vehicle	
			Active (N=18)	Vehicle (N=18)	Active (N=21)	Vehicle (N=21)	Active (N=20)	Vehicle (N=20)
	Worst score for Erythema	N	18	18	21	21	20	20
		0-None	2 (11.1%)	10 (55.6%)	3 (14.3%)	13 (61.9%)	0 (0.0%)	6 (30.0%
		1-Mild	7 (38.9%)	7 (38.9%)	8 (38.1%)	8 (38.1%)	12 (60.0%)	14 (70.09
		2-Moderate	9 (50.0%)	1 (5.6%)	10 (47.6%)	0 (0.0%)	8 (40.0%)	0 (0.0%)
		N	18	18	21	21	20	20
	Worst score for	0-None	2 (11.1%)	13 (72.2%)	1 (4.8%)	16 (76.2%)	0 (0.0%)	10 (50.0%
	Scaling	1-Mild	10 (55.6%)	4 (22.2%)	8 (38.1%)	5 (23.8%)	7 (35.0%)	8 (40.0%
		2-Moderate	6 (33.3%)	1 (5.6%)	12 (57.1%)	0 (0.0%)	13 (65.0%)	2 (10.0%)
		N	18	18	21	21	20	2 (10.0%)
	Worst score for Dryness	0-None	1 (5.6%)	12 (66.7%)	3 (14.3%)	16 (76.2%)	4 (20.0%)	12 (60.0%
		1-Mild	11 (61.1%)	4 (22.2%)	10 (47.6%)	4 (19.0%)	6 (30.0%)	6 (30.0%)
		2-Moderate	6 (33.3%)	2 (11.1%)	8 (38.1%)	1 (4.8%)	10 (50.0%)	2 (10.0%)
	Worst score for Stinging/Burning	N	18	18	21	21	20	2 (10.0 %)
		0-None	5 (27.8%)	16 (88.9%)	7 (33.3%)	17 (81.0%)	5 (25.0%)	15 (75.0%
		1-Mild	7 (38.9%)	2 (11.1%)	6 (28.6%)	4 (19.0%)	9 (45.0%)	5 (25.0%)
		2-Moderate	6 (33.3%)	0 (0.0%)	8 (38.1%)	0 (0.0%)	5 (25.0%)	0 (0.0%)
		3-Severe	0 (0.0%)	0 (0.0%)	0 (0.0%)	0 (0.0%)	1 (5.0%)	0 (0.0%)
	 Pregnancy One subject treate study. The subject issues were report Laboratory Results from labo at Day 29 /early te 	ed with CD578 t gave normal ted during the y measuremen ratory measure	birth to a pregnancy ts, assessn ements, as	girl, one v and at the nents for v	week earl e "Day 10 vital signs	ier than p 0" visit of s and physics	lanned. N f the baby sical findi	lo safet ngs
22. Summary (conclusion)	The use over 4 we µg/g gel compare lesions count and CD5879 in the c tolerability were c	eks of CD578 d to their vel percent reduct ream B and	9 cream B nicle provi ion from I the gel w	at 25 μg/ ded signi D01. as well t	g and 50 ficant di	µg/g as w fferences	ell as CD in terms	5789 5(of tota

Applicant (Marketing		
Authorization Holder)	(signature)	GALDERMA SA
	Régis Schulz	Zählerweg 10
	(full name)	CH-6300 Zug
		058 455 85 00

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period (clause 4 of Section IV)

1.22	Report on Clinical Studies		
1. Name of the medicinal product (marketing authorization number, if available)	AKLIEF cream 0,005 %		
2. Applicant	Galderma SA		
3. Manufacturer	LABORATOIRES GALDERMA ZI Montdesir 74540 ALBY-SUR-CHERAN France		
4. Studies con	iducted: \overline{x} yes \Box no if no, to justify		
1) type of medicinal product for which the registration was conducted or planned	Medicinal product with complete dossier		
5. Full name of clinical study, code number of clinical study	RD-06-SRE-18237 - A Pharmacokinetic study of CD5789 following dermal application of CD5789 50 μ g/g or 100 μ g/g Cream under maximal use conditions in subjects 9 to 17 years of age with Acne Vulgaris		
 Clinical study phase 	Phase 1		
7. Clinical study period	Date of first enrolled: 01 Nov 2012 Date of last subject completed:18 Jul 2013		
8. Countries where clinical study was conducted	United States of America (USA)		
9. Number of subjects	Approximately 72 subjects were to be screened in order to achieve the target of 36 randomized/enrolled subjects (18 per group) to ensure 32 completers (at least 16 per group). In an attempt for a fair balance among age groups and gender, enrollment of at		

	least 4 subjects between 9 to 11 ye was planned.	ears of age and approximate	Ty To temales in the study			
10. Aim and secondary purposes of	Primary objective To assess the systemic exposure to CD5789 under maximal use conditions in subjects 9					
clinical study	to 17 years of age with acne vulgaris when CD5789 50 μ g/g Cream or 100 μ g/g Cream was applied once daily for 29 days.					
	Secondary objective					
	To assess the safety and tolerability of CD5789 50 $\mu g/g$ Cream and 100 $\mu g/g$ Cream.					
11. Clinical	Randomized, double-blind study consisting of 2 parallel groups:					
study design	 Group 1: CD5789 50 μg/g Cream applied once daily Group 2: CD5789 100 μg/g Cream applied once daily 					
12. Main inclusion	Key inclusion criteria:					
criteria	 Male or female 9 to 17 years of age inclusive. If 9 to 11 years of age (prior to 12th birthday), the subject had an Investiga Global Assessment (IGA) of at least 3 on the face. If 12 to 17 years of age, the subject had an IGA of 4 on the face plus at leas inflammatory lesions and at least 40 non-inflammatory lesions on the face. Female subjects had a negative serum and urine pregnancy test (UP Screening visit and a negative UPT at Baseline/Day 1 visit. Female subjects of childbearing potential OR premenarcheal females had to to use a highly effective and approved double-barrier contraceptive method(the duration of the study and for at least 1 month after the last study application. Body mass index (BMI) at the Screening visit was within specified range. 					
Investigational medicinal	 CD5789 cream, topical administration, strength: 50 or 100 µg/g Test product dosage form 					
product,		Investigational Product	Investigational Product			
method of	Trade Name or equivalent (if applicable)	Not Applicable	Not Applicable			
administration	Name of Drug Substance (INN)	Not Applicable	Not Applicable			
	Internal code (if applicable)	CD5789	CD5789			
, strength	Pharmaceutical form	Cream	Cream			
	Strength	50 μg/g	100 µg/g			
	Formula number	0219.0102	0219.0073			
	Packaging (type and size) Storage conditions	Megaplast bottle 50 mL Store below 25°C - Do not freeze or	Megaplast bottle 50 mL Store below 25°C – Do not freeze o			
	Dosage (total daily dose)	refrigerate 1.1 to 2 g based on body weight	refrigerate 1.1 to 2 g based on body weight			
	Dose regimen					
	Route	Topical	Topical			
	Frequency	Once daily in the morning	Once daily in the morning			
	Duration of administration 29 days 29 days Location of treated area Face, shoulders, upper back, upper chest (except the neck) Face, shoulders, upper back, upper back, upper back					
14. Reference medicinal product, method of	Not Applicable	chest (except the neck)				

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period

(clause 4 of Section IV)

	Report on Clinical Studies
1. Name of the medicinal product (marketing authorization	AKLIEF cream 0,005 %
number, if available)	
2. Applicant	Galderma SA
3. Manufacturer	LABORATOIRES GALDERMA ZI Montdesir 74540 ALBY-SUR-CHERAN France
4. Studies cond	lucted: $\overline{\mathbf{x}}$ yes \Box no if no, to justify
1) type of medicinal product for which the registration was conducted or planned	Medicinal product with complete dossier
5. Full name of clinical study, code number of clinical study	RD-03-SRE-40209 - Evaluation of the Cutaneous Cumulative Irritancy Potential of CD 5789 Cream at 50 μ g/g and 100 μ g/g and Corresponding Vehicle Following Repeated Applications to the Skin of Healthy Subjects.
6. Clinical study phase	Phase 1, Human pharmacology
7. Clinical study period	Date of first screened: 23-May-2013 Date of last subject completed: 19-Jul-2013
8. Countries where clinical study was conducted	France
9. Number of subjects	Approximately 55 healthy male or female subjects were to be screened in order to randomize 35 subjects to get at least 30 evaluable subjects at the end of the clinical trial.
10. Aim and	To determine the cutaneous cumulative irritancy potential of CD5789 cream at 50 µg/g
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secondary purposes of clinical study	and 100 μ g/g and corresponding cream vehicle following repeated applications to the skin of healthy subjects.
11. Clinical study design	This was a single-center, randomized, vehicle-, negative and positive-controlled, evaluator blinded, intra-individual design clinical trial enrolling healthy male and female subjects.
12. Main inclusion criteria	 Key inclusion criteria Male or female 18 to 65 years of age inclusive at screening visit. The subject was, in the opinion of the Investigator, in good general health. Skin phototype of I to IV (Wolff 2007) Female of non-childbearing potential (postmenopausal [absence of menstrual bleeding for 1 year prior to screening, without any other medical reason], hysterectomy or bilateral oophorectomy). Female of childbearing potential with a negative UPT at screening and baseline visits Female of childbearing potential who agreed to use a double-barrier contraception method during all the study participation until the last study drug application/last study drug administration and for at least one month after the last study drug application/last study drug administration, consisting of use of condom and a highly effective and approved method of contraception.
13. Investigational medicinal product, method of administration , strength	CD5789, tropical (dermal) administration, cream, strength: 50 µg/g & 100 µg/g
14. Reference medicinal product, method of administration , strength	 Comparator: topical (dermal) administration, cream, strength: placebo Comparator (negative control): white petrolatum (Vaseline), tropical (dermal) administration, ointment, strength: Not Applicable Comparator (positive control): Sodium Lauryl Sulfate (SLS), topical (dermal) administration, solution, strength: 0.25%
15.Concomitanttherapy16. Efficacy	Not Applicable Efficacy was not assessed in this study.
evaluation criteria 17. Safety evaluation criteria	 Skin Reaction Assessment. Adverse Events Vital signs/Physical examination
18. Statistical methods	 Primary efficacy endpoint: Not Applicable Secondary efficacy endpoints: Not Applicable
19. Demographic indicators of	The mean age of subjects was 38.8 years (see Table 1) at screening (range 20 to 65 years). Most of randomized subjects were female (62.9%) and all were Caucasian. Randomized

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If an AE is not in treated area it will be summarized in each study treatment.
Note: The numbers in the columns cannot be added because a given subject could report more than one AE.
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Three AESIs (see Table 3) were reported. One subject experienced moderate eczema-
reaction on both CD5789 50 µg/g and 100 µg/g treated sites 12 days after starting
study drugs applications. Another subject experienced a moderate skin irritation on
CD5789 100 µg/g treated site 14 days after the first study drugs applications. The</td><td></td><td>Related AEs to study drug
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Three AESIs (see Table 3) were reported. One subject experienced moderate eczema-
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Three AESIs (see Table 3) were reported. One subject experienced moderate eczema-
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second (48 hours) readings after patches removal.

Table 3 Related adverse events (Safety population)

Subject	Treatment	Location	System Organ Class/ Preferred Term	Date of onset/ Date of Recovery	Serious/ Severity	Action taken/ Outcome	Study drug/ Procedur e	AES
5074- 131	CD5789 100 µg/g	Z3	Skin and subcutaneous tissue disorders/ Eczema	(D13)/(D29)	No/ Moderate	Drug withdrawn/ Recovered	Related/ Not related	Yes
	CD5789 50 µg/g	Z5	Skin and subcutaneous tissue disorders/ Eczema	(D13)/(D29)	No/ Moderate	Drug withdrawn/ Recovered	Related/ Not related	Yes
5074- 132	CD5789 100 µg/g	Z5	Skin and subcutaneous tissue disorders/ Skin irritation	(D15)/ (D31)	No/ Moderate	Drug withdrawn/ Recovered	Related/ Not related	Yes
	CD5789 50 µg/g	Z3	Skin and subcutaneous tissue disorders/ Skin irritation	(D15)/ (D31)	No/ Mild	Drug withdrawn/ Recovered	Related/ Not related	No

None of these AEs led to the premature discontinuation of the study.

There was no SAE and no death.

• Cutaneous tolerance

Worst skin irritation score and MCII are presented for each study drug in Table 4 below.

Table 4 Worst skin reaction score and MCII

		CD5789 100 µg/g	CD5789 50 µg/g	CD5789 Vehicle	White Petrolatum	Sodium Lauryl Sulfate
Worst score	N	35	35	35	35	35
	0-No response	0 (0.0%)	0 (0.0%)	0 (0.0%)	15 (42.9%)	4 (11.4%)
	0.5-Indistinct erythema	0 (0.0%)	0 (0.0%)	24 (68.6%)	12 (34.3%)	20 (57.1%
	1-Well-defined erythema	3 (8.6%)	6 (17.1%)	10 (28.6%)	8 (22.9%)	11 (31.4%
	2-Slight to moderate edema	19 (54.3%)	18 (51.4%)	1 (2.9%)	0 (0.0%)	0 (0.0%)
	3-Vesicles or papules	2 (5.7%)	1 (2.9%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
	4-Bullous	11 (31.4%)	10 (28.6%)	0 (0.0%)	0 (0.0%)	0 (0.0%)
	Mean±SD	2.6 ± 1.0	2.4 ± 1.1	0.7 ± 0.3	0.4 ± 0.4	0.6 ± 0.3
	Median	2.0	2.0	0.5	0.5	0.5
	(Min,Max)	(1,4)	(1,4)	(1,2)	(0,1)	(0,1)
Cumulative Irritancy Index	N	35	35	35	35	35
	Mean±SD	1.36 ± 0.37	1.25 ± 0.36	0.31 ± 0.20	0.08 ± 0.14	0.22 ± 0.1
	Median	1.26	1.17	0.24	0.03	0.17
	(Min,Max)	(0.9,2.3)	(0.8,2.3)	(0.0,1.0)	(0.0,0.6)	(0.0,0.8)

Both concentrations of CD5789 50 µg/g and 100 µg/g induced cumulative irritant reaction under semi-occlusive conditions. A slight dose-dependent cumulative irritancy profile was observed.

22. Summary (conclusion) This study was conducted to determine the cumulative irritancy potential of CD5789 cream at 50 μ g/g and 100 μ g/g and corresponding cream vehicle following repeated applications to the skin of healthy subjects under semi-occlusive conditions.

This was a single-center, randomized, vehicle-, negative and positive-controlled evaluator blinded, intra-individual design clinical trial enrolling healthy male and female subjects carried out in a specialized phase 1 unit (CPCAD, Nice in France).
The methodology used was standard for this type of Dermal Safety Study. The subjects were exposed to the study drugs i.e. CD5789 cream at 50 μ g/g and 100 μ g/g, CD5789 vehicle, white petrolatum as negative control and 0.25% SLS aqueous solution as positive control, under semi-occlusive conditions 6 days a week for 3 consecutive weeks.
Thirty-five subjects were randomized and 33 completed the study. Two subjects discontinued the study for non-related reasons. Most subjects were females and all were Caucasian. Subjects had mainly a skin phototype III. At Screening visit, the mean age was 38.8 years (range 20 to 65 years).
This 21-Day tolerance study showed that CD5789 cream has a dose-dependent irritancy profile when applied under semi-occlusive conditions.
In this study, SLS 0.25% in aqueous solution was used as positive control as classically recommended. However, due to the therapeutic class of the studied molecules (topical retinoids), the study was designed using semi-occlusive dressings and not occlusive patches (maximized skin penetration). The irritant potential of 0.25% SLS aqueous solution was reduced compared to occlusive conditions (Feldmann 1965, Maibach 1992). Nevertheless, the skin reaction profile over time is in favor of a slight cumulative irritant reaction.
 The irritancy potential of CD5789 at 50 μ g/g and 100 μ g/g was definitely higher than those of the negative control (white petrolatum) and the Vehicle. This observation of an irritant reaction with a small incremental effect at two doses validates that a positive reaction can be documented under the conditions of the study.
In conclusion, within the study conditions, the skin irritancy potential of CD5789 cream at $50 \ \mu\text{g/g}$ and $100 \ \mu\text{g/g}$ seems similar to that of current topical retinoids.

Applicant (Marketing		
Authorization Holder)	(signature) Régis Schulz	GALDERMA SA Zählerweg 10 CH-6300 Zug
	(full name)	058 455 85 00

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period

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(clause 4 of Section IV)

	Report on Clinical Studies
1. Name of the medicinal product (marketing authorization number, if available)	AKLIEF cream 0,005 %
2. Applicant	Galderma SA
3. Manufacturer	LABORATOIRES GALDERMA ZI Montdesir 74540 ALBY-SUR-CHERAN France
4. Studies cond	lucted: $\overline{\mathbf{x}}$ yes \Box no if no, to justify
1) type of medicinal product for which the registration was conducted or planned	Medicinal product with complete dossier
5. Full name of clinical study, code number of clinical study	RD-06-SPR-18223 - A randomized, multi-center, Investigator-blind, vehicle- and active- controlled, phase 2 study to assess the efficacy and safety of different concentrations of CD5789 Cream applied once daily in subjects with moderate to severe acne vulgaris
6. Clinical study phase	Phase 2
7. Clinical study period	Date of first screened: 20-JUN-2012 Date of last subject completed:24-JUL-2013
8. Countries where clinical study was conducted	United States of America
9. Number of subjects	Planned: Approximately 150 subjects were planned to be randomized into each of Strata 1 and 2, and approximately 28 subjects to Stratum 3. In total, across all 3 Stratum, 328

16. Efficacy evaluation	Primary efficacy endpoints:
criteria	 Success Rate 1 (SR1), defined as the percentage of subjects who achieve at leas a two-point reduction in the IGA score from Baseline at Week 12, Las Observation Carried Forward (LOCF), Intent to Treat (ITT) population. Absolute and percent change in total lesion counts from Baseline to Week 12 (LOCF, ITT).
	Secondary efficacy endpoints:
	 Success Rate 2 (SR2), defined as the percentage of subjects rated "Clear" (Grade 0) or "Almost clear" (Grade 1) with at least a two-point reduction on the IGA scale at Week 12 (LOCF, ITT). Absolute and percent change in inflammatory lesion counts from Baseline to Week 12 (LOCF, ITT). Absolute and percent change in non-inflammatory lesion counts from Baseline to Week 12 (LOCF, ITT).
	Other efficacy endpoints:
	 IGA and Change in IGA from Baseline to Week 12 (LOCF, ITT) Subject's assessment of acne at Week 12 (LOCF, ITT) Absolute and percent change in lesion counts by type of lesion (observed data, ITT).
17. Safety evaluation criteria	Adverse events (AEs) reported at each visit after the subject signs the informed consent form; routine hematology and blood chemistry; general physical examination and vital signs; electrocardiograms (ECGs) and local tolerability (erythema, scaling, dryness, and stinging/burning).
18. Statistical	Efficacy:
nethods	The primary comparisons were those of each dose versus the placebo in the combined pre-defined strata. Both the intention to treat (ITT) and per protocol (PP) populations were analyzed. For the ITT population, the LOCF was used to impute missing data up to Week 12.
	An analysis of covariance (ANCOVA) model with terms for treatment, stratum, and Baseline lesion count as covariate was used to analyze the changes from Baseline in lesion counts. An additional model included the treatment by stratum interaction to investigate whether there was evidence of differing treatment effects between strata.
	The Cochran-Mantel-Haenszel (CMH) test stratified by stratum was used to analyze the success rate (SR1 and SR2), IGA (full scale), changes from Baseline in IGA, percent changes in lesion counts, and subject assessment of acne. The untransformed Table score and general association statistic was used for success rates, and the RIDIT score and row mean difference for the other ordinal or continuous parameters.
	Similar analyses were performed separately per stratum as exploratory subgroup analyses. All tests were two-sided and used the 0.05 level to declare significance. No adjustment for multiplicity was made.
	Exploratory analysis was performed using Cochran-Armitage trend test on SR1 and SR2, and regression analysis for change and percent change in total lesion count. Dose (0 μ g/g, 25 μ g/g, 50 μ g/g, and 100 μ g/g) was an independent variable in the model to test for dose effect.
	Safety:
	Adverse events (AEs) and local tolerability data were collected per stratum, and for all strata combined. All AEs occurring during the study were recorded and classified on the basis of MedDRA terminology for the safety population. Treatment-emergent AEs

	(TEAEs) were sum serious AEs, AEs of medication, and sev counted only once w	vere AEs, b within a sy	by system c stem organ	organ class and class or a	discontinua and preferred preferred te	tion, AEs ed term. Ea erm.	related to stu ach subject v
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19. Demographic indicators of the study population	The ITT population across the treatment to 35 years (more su Most subjects were for Strata 1 and 2 we	n demograp groups (T ubjects we male (78.6	phic and d able 1). Mare aged 12 5%) and Ca	isease char ean age was to 17 year aucasian (8	acteristics s 18.2 years s [60.9%] t 1.9%). Den	at Baselin and age r	e were simi anged from
(gender, age, race, etc.)	At Baseline, in the c inflammatory lesion see Table 2. The ma non-inflammatory le CD5789 50 µg/g Cra subjects in this gro Baseline across the t	ean (SD) c esion cour eam group up. There	of nodules of and tota than other were no o	at Baseline l lesion co treatment	ammatory 1 e was 0.5 ((punt at Base groups pre-	esions was 0.99). Mea eline were dominant	s 47.0 (22.27) an and media e lower in the v in Stratum
	The proportions of I and 2) and Baseline I in Stratum 2 had n	TT popula IGA (3 and	tion subject 4). Consis	stent with the	he criteria f	or stratific	ation subject
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	in Stratum 1 (98%) inflammatory lesions	mean of 49 subjects w s of 45.9).	ith IGA o	at Baseline flammatory f 3; inflam oulation) CD5789 100 µg/g Cream	e (100% su lesions me matory les Tazarotene 0.1% Gel	ubjects wi an of 47.8 ion mean	th IGA of -) than subjec of 28.2; nor
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	Baseline parameter	CD5789 25 µg/g Cream (N=61)	СD5789 50 µg/g Cream (N=61)	CD5789 100 µg/g Cream (N=60)	Tazarotene 0.1% Gel (N=61)	Vehicle (N=61)	Total
	IGA Score 3	30 (49.2)	30 (49.2)	29 (48.3)	28 (45.9)	31 (50.8)	(N=304)
	IGA Score 4	31 (50.8)	31 (50.8)	31 (51.7)	33 (54.1)	30 (49.2)	148 (48.7)
	Mean Total Lesions	90.8	80.5	86.3	88.9	86.7	156 (51.3)
	Mean Inflammatory Lesions	39.4	38.4	38.8	39.2	40.1	86.6
	Mean Non-Inflammatory Lesions at Baseline	51.0	41.6	47.1	49.3	45.9	39.2 47.0
	Mean Nodules at Baseline	0.4	0.5	0.5	0.3	0.7	
	Data source: Table 14.1.3.1 Note: Percentages are based on th	ne number of enro	olled subjects in th	The second s		0.7	0.5
20. Efficacy outcomes	Primary efficacy cri - SR1					each treatment g	roup.
	- 1.01	MH test on	the ITT p endpoint: n in IGA so	opulation (% Gel (p=	0.041) at
	Success rate 1 (SR1)		CD5789 25 µg/g Cream (N=61)	CD5789 50 µg/g Cream (N=61)	CD5789 100 µg/g Cream (N=60)	Tazarotene 0.1% Gel	Vehicle
	Success Rate		29.51	32.79	26.67	(N=61) 32.79	(N=61)
	Difference from Vehicle		13.115	16.393	10.273		16.39
	95% CI ^a	(-3.266,	(-0.249,	(-5.923,	16.393 (-0.249,	
	P-value vs. Vehicle b		0.096	0.040	0.184	33.036)	
	Treatment by Stratum Interact Data source: Table 14.2.1.1	tion ^c	0.630	0.438	0.822	0.041	-
	 The 95% confidence interval on the approximation with continuity correct P-value vs. Vehicle is based on Coi P-value for treatment by stratum int Total lesion cou Mean decreases in absorbulects receiving activity 	chran-Mantel-Ha leraction is from E unt olute total	enszel test with g Breslow-Day test	for homogeneity of	statistic, controllin f the odds ratio acr	g for stratum. oss stratum.	
	subjects receiving activ statistically significant p=0.002; Table 4). T difference versus Vehi 54.75; p=0.060; Table 4 4).	for subject he results	cts receivi showed	ng Tazarote a trend to	ene 0.1% (wards a st	cle; the diff Gel (LS me atistically	erence wa ean -59.84 significar
	The percent changes fro subjects receiving activ were statistically signif	e nearmei	nt than in	Clibioota no	TT.	2 were also hicle; the α μg/g Crear	greater i

Table 4

Primary efficacy endpoint: absolute and % change in total lesion count from Baseline to Week 12 using LOCF (ITT population)

Total lesior Change fro		CD5789 25 µg/g Cream (N=61)	CD5789 50 µg/g Cream (N=61)	Cream	Tazarotene 0.1% Gel	Vehicle
	Mean (SD)	-44.16 (31.441)	-40.02 (19.412)	(N=60)	(N=61)	(N=61)
	LS Mean (SE)	-53.61 (8.314)		-43.18 (24.282)	-49.41 (33.262)	-35.84 (27.226)
	and the second se		-54.75 (8.261)	-54.99 (8.296)	-59.84 (8.301)	-46.87 (7.934)
Absolute	Difference from Vehicle	-6.74	-7.88	-8.11	-12.97	(
change	95% Cl a	(-14.96, 1.48)	(-16.11, 0.34)	(-16.35, 0.13)	(-21.18, -4.76)	
	P-value vs. Vehicle ^b	0.108	0.060	0.054		-
	Treatment by Stratum Interaction c	0.414	-	-	0.002	
% change	Mean (SD)	-47.59 (28.474)	-49.87 (24.731)	-50.72 (24.885)	FE 07 (00 005)	
/v change	P-value vs. Vehicle d	0.067	0.054	0.038	-55.07 (26.295) 0.003	-40.48 (28.968)

Data source: Table 14.2.1.1

^a The 95% confidence interval on the difference between Vehicle and the specified treatment group LS means.

^b P-value vs. Vehicle is from the pairwise comparisons of LS means between Vehicle and the specified treatment group using analysis of covariance (ANCOVA) with terms for treatment, stratum, and Baseline lesion count as covariate.

^c P-value for treatment by stratum interaction is from analysis of covariance (ANCOVA) with terms for treatment, stratum, treatment*stratum, and with Baseline lesion count as covariate.

^d P-value vs. Vehicle is from the pairwise comparisons of percent changes in lesion counts using Cochran-Mantel-Haenszel test stratified by stratum with row mean score statistic and RIDIT scores.

Secondary efficacy criteria

- SR2

At Week 12, achievement of SR2 was also higher in subjects receiving active treatment than in subjects receiving Vehicle; the difference was statistically significant for subjects receiving Tazarotene 0.1% Gel (p<0.05 in the ITT population; Table 5). A modest numerical dose-response relationship was observed with active CD5789 Cream with SR2 increasing with increasing dose strength.

Table 5

Secondary efficacy endpoint: Success Rate 2: % of subjects rated "Clear" (Grade 0) or "Almost clear" (Grade 1) with at least a 2-point reduction in IGA score from Baseline to Week 12 using LOCF (ITT population)

Success rate 2 (SR2)	CD5789 25 µg/g Cream	СD5789 50 µg/g Cream	CD5789 100 µg/g Cream	Tazarotene 0.1% Gel	Vehicle
Current Data	(N=61)	(N=61)	(N=60)	(N=61)	(N=61)
Success Rate	13.11	14.75	16.67	21.31	8.20
Difference from Vehicle	4.918	6.557	8.470	13.115	0.20
95% CI ª	(-7.637, 17.473)	(-6.333, 19.448)	(-4.858, 21.798)	(-0.894, 27,123)	-
P-value vs. Vehicle b	0.382	0.261	0.168	0.046	
Treatment by Stratum Interaction °	0.885	0.636	0.447	0.046	-

Data source: Table 14.2.1.1

^a The 95% confidence interval on the difference between Vehicle and the specified treatment group success rates was based on normal approximation with continuity correction (Fleiss 1981).

^b P-value vs. Vehicle is based on Cochran-Mantel-Haenszel test with general association statistic, controlling for stratum.

° P-value for treatment by stratum interaction is from Breslow-Day test for homogeneity of the odds ratio across stratum.

Inflammatory and non-inflammatory lesion counts

Trends observed with total lesion count were comparable with the trends seen in noninflammatory lesion counts with statistical significance in subjects receiving CD5789 100 μ g/g Cream and Tazarotene 0.1% Gel (p<0.05 for absolute and % change in the ITT population; Table 6). Changes in inflammatory lesion count also showed similar overall trends but with statistical significance in subjects receiving CD5789 50 μ g/g Cream (p<0.05 for % change in the ITT population only; Table 6).

In subjects receiving CD5789, the greatest mean decrease in absolute and percentage inflammatory lesion count from baseline was seen with CD5789 50 μ g/g Cream (LS

mean -24.87, p=0.074 and mean -53.14%, p=0.031; Table 6) and the greatest mean absolute and percentage decrease in non-inflammatory lesion count from baseline was seen with CD5789 100 μ g/g Cream (LS mean of -32.72, p=0.035, and mean -49.57%, p=0.015; Table 6); no apparent dose relationship was observed.

Table 6

Secondary efficacy endpoints: absolute and % change in inflammatory and non-inflammatory lesion counts from Baseline to Week 12 using LOCF (ITT population)

Lesion count chan	ge from Baseline	(N=61)		CD5789 100 µg/g Cream (N=60)	Tazarotene 0.1% Gel	Vehicle
	Mean (SD)	-19.67 (14.874)	(N=61) -21.11 (13.268)	-19.32 (11.566)	(N=61)	(N=61)
	LS Mean (SE)	-23.26 (4.178)	-24.87 (4.172)		-21.03 (13.890)	-17.74 (15.073
Inflammatory lesion	Difference from Vehicle	-2.16	-3.77	-23.10 (4.179)	-24.64 (4.177)	-21.10 (4.005)
count: absolute	95% Cl ª	(-6.30, 1.98)		-2.00	-3.54	-
change	P-value vs. Vehicle b		(-7.92, 0.38)	(-6.16, 2.16)	(-7.68, 0.60)	-
		0.306	0.074	0.345	0.094	-
	Treatment by Stratum Interaction °	0.422	-	-	-	-
% change	Mean (SD)	-49.16 (35.711)	-53.14 (30.187)	-51.93 (27.255)	-53.09 (29.484)	11 70 /05 000
	P-value vs. Vehicle d	0.154	0.031	0.107	0.059	-41.70 (35.898)
	Mean (SD)	-24.30 (21.633)	-18.69 (12.895)	-23.70 (18.390)	-28.26 (26.346)	17.70 (17.7.17)
	LS Mean (SE)	-30.97 (5.380)	-30.90 (5.352)	-32.72 (5.370)		-17.70 (17.745)
Non-inflammatory	Difference from Vehicle	-3.99	-3.92	-5.74	-35.95 (5.373)	-26.98 (5.131)
esion count: Ibsolute change	95% Cl a	(-9.33, 1.34)	(-9.25, 1.41)	(-11.09, -0.40)	-8.98	-
incourse cusults	P-value vs. Vehicle b	0.142	0.149	0.035	(-14.31, -3.65)	-
	Treatment by Stratum Interaction °	0.491	-	-	0.001	
% change	Mean (SD)	-46.34 (30.888)	-45.26 (29.331)	-49.57 (29.786)	55 99 (00 040)	00.00 (00.000)
ata source: Table 14.	P-value vs. Vehicle d	0.049	0.192	0.015	-55.88 (28.913) <0.001	-38.20 (30.368)

Data source: Table 14.2.1.1

^a The 95% confidence interval on the difference between Vehicle and the specified treatment group LS means.

^b P-value vs. Vehicle is from the pairwise comparisons of LS means between Vehicle and the specified treatment group using analysis of covariance (ANCOVA) with terms for treatment, stratum, and Baseline lesion count as covariate.
^c P-value for treatment by stratum interaction is formed by the stratum of the specified treatment.

^e P-value for treatment by stratum interaction is from analysis of covariance (ANCOVA) with terms for treatment, stratum, treatment*stratum, and with Baseline lesion count as covariate.
^e P-value vs. Vehicle is from the pairwise stratement is from the pairwise stratement.

^d P-value vs. Vehicle is from the pairwise comparisons of percent changes in lesion counts using Cochran-Mantel-Haenszel test stratified by stratum with row mean score statistic and RIDIT scores.

- Other efficacy analyses

There was a decrease in IGA score (improvement) from Baseline to Week 12 in 63.9% to 75.3% subjects across the treatment groups. Improvements in subject assessment of acne were statistically significant compared to Vehicle in subjects receiving CD5789 100 μ g/g Cream (p<0.05). Absolute and percentage mean decreases in lesion count from Baseline to Week 12 were observed with each lesion type in all treatment groups.

- Exploratory efficacy analyses
 - Subgroup analyses

Summaries of the co-primary efficacy endpoints (SR1 and total lesions counts) across the subgroups showed a greater response in Stratum 2 subjects compared to Stratum 1 subjects, in subjects with Baseline IGA 4 (severe) compared to IGA 3 (moderate), and in females compared to males; however, the trends across the subgroups were not consistent within each active treatment group when comparing differences to Vehicle. A greater response was seen in adult subjects (18 to 35 years) compared to children (12 to 17 years) except for with CD5789 25 μ g/g Cream. A greater SR1 response was seen in non-Caucasians compared to Caucasians except for with CD5789 50 μ g/g Cream and no differences were observed between the races for changes in total lesion counts.

Phase 3 endpoints for acne vulgaris

	The efficacy results of the 148 subjects with moderate acne (Baseline IGA of 3) in term of success rate (clear/almost clear with at least a 2
	of success rate (clear/almost clear with at least a 2 grade improvement from baseline and inflammatory and non-inflammatory lesion counts (absolute and % changes) support the use of CD5789.
	- Relationship between CD5789 dose and success rate
	The exploratory analyses on relationship between CD5789 dose and success rate (SR and SR2) did not show a dose-response relationship. A modest numerical dose-response relationship was observed with SR2 (Table 5).
	- Other analyses
21.0.0	No changes of any clinical relevance were observed in atrophic acne scar assessments truncal acne assessments, dermatology life quality indices, or acute health surveys.
21. Safety outcomes	Median study duration was 99 days (approximately 14 weeks) and median study treatment duration was 84 days (12 weeks). The total number of applications on the face was consistent with once daily treatment over the 12 week study.
	The percentages of subjects who reported TEAEs in the CD5789 25 μ g/g Cream and CD5789 50 μ g/g Cream groups were similar to Vehicle (26.2% and 27.9% versus 29.5%), and higher than Vehicle in the CD5789 100 μ g/g Cream and Tazarotene 0.1% Gel groups (38.3% and 39.3%) (Table 7).
	No deaths were reported during the study. Three SAEs were reported by 3 subjects, all of which were considered unrelated to study treatment and led to study withdrawall pregnancy led to study withdrawal and was followed by the SAE of abortion spontaneous in 2 subjects (CD5789 25 μ g/g Cream and Vehicle) and depression in 1 subject (CD5789 50 μ g/g Cream). Adverse events led to the withdrawal of a further 3 subjects with non- serious AESIs of local tolerability, all of which were considered to be related to study treatment (Tazarotene 0.1% Gel in 1 subject and CD5789 100 μ g/g Cream in 2 subjects). One further subject who was receiving Tazarotene 0.1% Gel had an AESI of lymphadenopathy, however the subject continued study drug and completed the study.
	Most TEAEs reported were within the SOC Infections and infestations in all treatment groups with a similar frequency across each treatment group (between 11.5% and 18.3%). The TEAEs reported by the highest proportion of subjects in this SOC were nasopharyngitis (CD5789 25 μ g/g Cream, CD5789 100 μ g/g Cream, and Tazarotene 0.1% Gel) and upper respiratory tract infection (Vehicle).
	Treatment-emergent AEs in the SOC Skin and subcutaneous tissues disorders were reported by more subjects in the active treatment groups, with the greatest frequency in subjects receiving CD5789 100 μ g/g Cream and Tazarotene 0.1% Gel compared to Vehicle (18.3% and 14.8% versus 1.6%). The TEAE with the greatest difference between active treatment and Vehicle was skin irritation which was only reported in subjects receiving CD5789 100 μ g/g Cream or Tazarotene 0.1% Gel (10.0% and 8.2%). The drug-related TEAE reported by the highest proportion of subjects was also skin irritation, which was considered to be related in all but one of the subjects who reported it as a TEAE (Table 8).
	Analysis of TEAEs by stratum showed some differences in the overall number of subjects who reported at least one TEAE in the CD5789 25 μ g/g Cream and CD5789 100 μ g/g Cream groups, however the differences seen were not consistent between the two groups. The frequency and type of TEAEs reported in each stratum were similar to the overall population.
	Analysis of TEAEs by age group, suggested that TEAEs were more common with active treatment than compared to Vehicle in the 18 to 35 year age group but not in the 12 to 17 year age group and in females than in males, except for in the CD5789 50 μ g/g Cream

group where the opposite trend was observed. There did not appear to be any differences in TEAEs reported by subjects receiving CD5789 when analyzed by race.

Table 7

Overview of adverse events (safety population)

AE Category	CI	05789 25 Cream (N=61)		CI	D5789 50 Cream (N=61)		CD	5789 100 Cream (N=60)		Taz	arotene Gel (N=61)	0.1%		Vehicle (N=61))
	n	%	E	n	%	E	n	%	E	n	%	E	n	%	-
Any TEAE	16	(26.2)	23	17	(27.9)	24	23	(38.3)	32		-	-			E
TEAE Leading to					(21.0)	27	25	(30.3)	32	24	(39.3)	43	18	(29.5)	27
Study Withdrawal	0		0	1	(1.6)	1	2	(3.3)	2	1	(1.6)	3	0		0
SAE	1	(1.6)	1	1	(1.6)	1	0		0	0		0			-
AESI	0		0	0	1		J		U	0		0	1	(1.6)	1
Ource data: Table 1/		THE R. P. LEWIS CO., LANSING MICH.	0	0		0	2	(3.3)	2	2	(3.3)	4	0		0

Source data: Table 14.3.2.1

Note: If a subject has multiple AEs within the same category, the subject is presented only once in the respective subject count [n (%)]. Each event reported is included in the event count (E). Treatment-emergent AEs are defined as AEs that started after the first dose of study treatment. Percentages are based on the number of subjects in the safety population in each treatment group.

Table 8 Related adverse events (safety population)

AE Category Preferred Term	CI	D5789 25 Cream (N=31)	1	CI	05789 50 Cream (N=31)	1	CD	5789 100 Cream (N=30)	1	Ta	zarotene Gel (N=31)			Vehic (N=3	
And Dave Dala 17	n	%	E	n	%	E	n	%	E	n	%	E	n	%	E
Any Drug-Related Treatment- Emergent Adverse Events	2	(3.3)	2	1	(1.6)	1	9	(15.0)	12	7	(11.5)	15	0	-	0
Skin irritation	0	-	0	0	-	0	6	(10.0)	7	4	(6.6)		-	-	
Skin burning sensation	0	-	0	1	(1.6)	1	0	(10.0)	0	2		4	0		0
Erythema	0	-	0	0	-	0	1	(1.7)	1	1	(3.3)	2	0	-	0
Pain of skin	0	-	0	0	1.	0	1			'	(1.6)	1	0	-	0
Pruritus	0	-	0	0		0	1	(1.7)	1	1	(1.6)	1	0	-	0
Skin exfoliation	0	-	0	0		0		(1.7)	1	1	(1.6)	1	0		0
Cheilitis	0		0	0		0	1	(1.7)	1	1	(1.6)	1	0	-	0
Dry skin	1	(1.6)	1	0	-	0	0	-	0	1	(1.6)	1	0	-	0
Dyshidrosis	0		0	0	-	-	0	-	0	0	-	0	0	-	0
ymphadenopathy	0	-	0	0		0	0	-	0	1	(1.6)	1	0	-	0
Overdose	0	-	0	0	-	0	0	-	0	1	(1.6)	1	0	-	0
Pityriasis alba	0		-	-	-	0	0	-	0	1	(1.6)	1	0	-	0
Rash	1	(1.6)	0	0	-	0	0	-	0	1	(1.6)	1	0		0
Skin hypopigmentation	0	(1.0)	1	0	-	0	0	-	0	0	-	0	0	-	0

Source data: Table 14.3.3.4.1

Note: Adverse events are coded using MedDRA version 13.0. If a subject has multiple occurrences of an AE, the subject is presented only once in the respective subject count. Events are counted each time in the event (E) column. Treatment-emergent AEs are defined as AEs that started after the first dose of study treatment. Percentages are based on the number of subjects in the safety population in each treatment group.

The proportions of subjects with no signs or symptoms of local tolerability at Baseline were similar across the treatment groups. The proportions of subjects experiencing signs or symptoms post-Baseline (worst scores) were higher than at Baseline in all treatment groups, particularly with active treatment. In all active treatment groups, the mean scores for the signs and symptoms of local tolerability were increased from Baseline over the 12 weeks of treatment, with a peak at Week 1, compared to Vehicle for which mean scores remained similar to Baseline throughout the 12 week treatment period. The only exception to this trend was seen with CD5789 100 μ g/g Cream in which mean scores of erythema peaked at Week 4. For all treatment groups, the mean scores represented mild signs and symptoms. Worst post-Baseline scores for all signs and symptoms were moderate or severe and worse than Baseline in a similar proportion of subjects receiving CD5789 100 μ g/g Cream or Tazarotene 0.1% Gel and higher than in subjects receiving CD5789 25 μ g/g Cream or CD5789 50 μ g/g Cream (Table 9).

Table 9 Local to were mo	lerability signs and derate or severe (sa	symptoms - fety popula	-scores wors tion)	se than Basel	ine that
Sign/symptom	СD5789 25 µg/g Сгеат (N=61)	CD5789 50 µg/g Cream (N=61)	CD5789 100 µg/g Cream (N=60)	Tazarotene 0.1% Gel	Vehicle
Worse than Baseline with worst	score post-Baseline mode	rate or severe	(14-00)	(N=61)	(N=61)
n	61	61	50		
Erythema	12 (19.7)	10 (16.4)	59 17 (28.8)	61	60
Scaling	13 (21.3)	18 (29.5)	22 (37.3)	16 (26.2)	4 (6.7)
Dryness	14 (23.0)	17 (27.9)	17 (28.8)	23 (37.7)	2 (3.3)
Stinging / burning	13 (21.3)	9 (14.7)	15 (25.4)	16 (26.2) 20 (32.8)	3 (5.0)
hematology or chemistr population, shifts from no AST and were notably d Cream. For all blood che the majority of subjects a observed. There were no Week 12 in any individua	ifferent from Vehi mistry and hemato nd no clinically signific	were greate cle for sub logy param	er than shif bjects receiv neters, no sh	ts from low ving CD578 nifts were of	to norma 9 25 μg/g pserved in
Cream, CD5789 100 µg/g effect versus Vehicle on percent total lesion count. 25 µg/g and CD5789 100 and percent decrease in int and SR2 ('Clear' or 'Almo As expected with topical r in all active treatment gro µg/g Cream or Tazarotene in severity at Week 1, exce elevated mean scores of e tolerability of CD5780 50	CD5789 50 μ g/g w μ g/g Cream in term flammatory lesion cost Clear' on IGA) retinoids, local toler oups and were com 0.1% Gel. Mean locert put for in subjects re- rythema were more	GA scores vas shown t ns of 2-poin count, but la than CD57 rability sign parable in peal tolerab ecciving Cl	and/or red o be more e nt reduction ess effective 789 100 µg/ ns and symp subjects re ility signs a D5789 100 d with a pe	uction in ab ffective than of IGA score e on total les g Cream. ptoms were in ceiving CD2 nd symptom µg/g Cream	increased peaked in which
Tazarotene 0.1% Gel. Thi skin and subcutaneous tissa 50 μ g/g Cream than subject The objective of this study Cream to be evaluated in study population the dose s	μg/g Cream was be s was also observe ue disorders were re ets receiving CD57 was to identify a s Phase 3 studies. C strength of CD5789	tter than with spo eported in f 89 100 μg/j afe and eff Over 12 we	ith CD5789 entaneously ewer subjec g Cream. ective conc ective conc ects of treat	$100 \ \mu g/g \ Cr$ reported Alternative receiving entration of timent, in the	ream and Es where CD5789 CD5789 e overall
effective dose, whereas CE determined to be efficaciou dose. Although both doses risk ratio in the treatment of of CD5789 50 µg/g Cream	s with only a mode of 50 μg/g and 100 facne vulgaris the	m and CD: st efficacy μg/g of CI	5789 100 μg advantage i D5789 provi fety and loo	g/g Cream w n favor of th de a positive	ere both he higher e benefit

Applicant (Marketing		
Authorization Holder)	(signature)	GALDERMA SA
	Régis Schulz	Zählerweg 10
	(full name)	CH-6300 Zug 058 455 85 00

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period

(clause 4 of Section IV)

1. Name of the	Report on Clinical Studies
medicinal	
product	
(marketing	AKLIEF cream 0,005 %
authorization	
number, if	
available)	
2. Applicant	Galderma SA
3.	LABORATOIRES GALDERMA
Manufacturer	ZI Montdesir
	74540 ALBY-SUR-CHERAN
4. Studies cond	France
4. Studies cond	ducted: \underline{x} yes \Box no if no, to justify
1) type of	
medicinal	
product for	
which the	Medicinal product with complete dossier
registration	
was conducted	
or planned	
5. Full name	RD-06-SPR-40182 - Pharmacokingtion at the of CD 5700
of clinical	RD-06-SPR-40182 - Pharmacokinetics study of CD5789 cream 50 and 100 μ g/g in subjects with severe acne vulgaris under maximal use conditions
study, code	and a second the second tions
number of	
clinical study	
6. Clinical	Phase 1
study phase	
7. Clinical	Date of first screened: 25 October 2012
study period	
	Date of last subject completed: 23 August 2013
3. Countries	Germany – Hungary – United States of America (USA)
where clinical	
tudy was	
onducted	
. Number of ubjects	A total of 68 subjects were screened and 39 were randomized at 6 centers in 3 countries
	(5 in Germany, 2 in Hungary and 1 in the USA) to receive CD5789 50 $\mu g/g$ (21 subjects)
	or CD5789 100 μ g/g (18 subjects). All 39 subjects comprised the Safety population.

3											
	In total, 36 50 µg/g gro (after 29 da	subjects com oup early in th tys).	pleted th e study (a	e stu after	dy: there 1 and 3	e were days) a	2 stu nd 1	dy withdra in the CD5	wals i 789 1	n the 00 μg	CD5789 /g grou
		the 2 subjec the PK analy nd his data we low)	SIS. UNC	SUDI	ect in the		201	nn uala		• •	1
10. Aim and secondary purposes of clinical study	vulgaris i.e	the systemic of CD5789 . an Investiga ry lesions and	ator's Gl	and obal	Assess	g/g crea	am i	n subjects	with	sever	e acne
	This assess parameters zones poten	sment was o under maxim tially affected neck) (Guid	lone thr ized cone l by acne	ougł ditio lesi	n detern ns of us	nination e (subj	n of ects	the phar treated wit	maco h 2 g	kineti of cr	c (PK) eam on
11. Clinical study design	with at least	vas a Phase 1 bjects with a 30 non-infla ming Visit an	mmatory	lesi	on the fa	ce with	1 9 6	avarity of	1 0 10 41		4 1
	The study co	ensisted of a s ent, followed	creening	peri	od of ma	ximun	n 14 (days, a 29-0	day pe	eriod o	ofonce
	treatment per 29 application upper back, a total amount study treatment the same tim period, blood at specific tir	e as the first samples for ones on Days	Day 1 ar vere perfect $0 \mu g/g \text{ or}$ n was per- day ± 30 determina 1, 2, 10.	g/g ad D orme the 100 form min ation	group or ay 29 V ad by a d neck and $\mu g/g$ created ned on I for the f of CD5 ²	the CL isits, the qualified startine am app Day 1 b Followin 789 con nd 29	0578 ne stu ed pe ng in plied netwe ng 28 ncent	9 100 μg/g dy treatme rson on th the acne-a per applica en 7:30 an 8 days. Dur tration in pl	group ent ap e face ffecte ation v d 9:30 ring the asma	b. Duri plicati e, shou d area was 2 0 AM he trea were	ing the on i.e. ulders, us. The g. The and at atment drawn
	analysis were the last treatm	also drawn (juring th	e 3-0	lay follo	w-up p	oerioo	d, 24, 48, a	nd 72	hour	s after
		aarmacokinetic Sele	ected Study I	eriod	s and Time I	Points					
	PK Sampling Day Plasma samples time	Day 1 2, 4, 6, 8, 10, 12, and	Day 2		Day 15	Day 16	Day 22	Day 29 / Early Termination	Day 30	Day 31	Day 32
	points *	16 hours after the initial dose	24 hours after initial dose (Pre-dose)	Pre- dose	Pre-dose, 2, 4, 6, 8, 10, 12, and 16 hours after the morning dose	24 hours after Day 15 dose (Pre-dose)	Pre- dose	Pre-dose, 2, 4, 6, 8, 10, 12, and 16 hours after the morning dose	24 hours after last dose on Day 29	48 hours after last dose on Day 29	72 hours after last dose on Day 29
	Systemic PK parameters	Gmax, Tmax, AUCo-24h	Ctrough	Ctrough	Crough, Cmax, Tmax, AUCo par	Ctrough	Ctrough	Ctrough, Cmax, Tmax, AU			Kel, T1/2
	PK = Pharmacokinetic; Crowon concentration-time curve from concentration; AUCoint = Area ^a . Sampling times were determ	under the concentration time	curve from TO to ext	_{aax} = Obse Area unde rapolated	erved peak drug co er the concentratior to time infinity; Ke	ncentration; T _m n-Time curve fro = Elimination ra	ar = Time a om T0 up to te constan	t which C _{max} occurred; A o the sampling time corre t value;T12 = Terminal h	UC ₀₋₂₄₀ = Are esponding to alf-life value;	ea under the the last quan T0 = Pre-dos	tifiable se time.
	Key inclusion on the face wi lesions and at	in a severity g	rade of 4	ont	he l(iA	scale w	ith a	t least 30 n	on int	Taman	- 4 - 1
3	CD5789 crean										15115.

administration		Investigational Product	Comparator
, strength	Trade Name or equivalent (if applicable)	NA	NA
	Name of Drug Substance (INN)	NA	NA
	Internal code (if applicable)	CD5789	NA
	Pharmaceutical Form	Cream	NA
	Concentration	50 or 100 µg/g	NA
	Packaging (type and size)	Megaplast Bottle 50 mL	NA
	Storage Conditions	Store below 25°C – Do not freeze or refrigerate	NA
	Dosage (total daily dose)	2 g (2 mg/cm ²)	NA
	Dose regimen		NA
	Route	Topically	NIA
	Frequency	Daily	NA
	Duration of administration		NA
	Location of treated area	29 days	NA
	NA = Not applicable.	Face, shoulders, upper back and upper chest, except the neck	NA
strength 5. Concomitant nerapy 6. Efficacy valuation riteria	Not Applicable Not Applicable		
7. Safety valuation iteria	 Laboratory safety tests: he 29 Visits and urine drug sc Local tolerability assessme performed on Day 1, Day 1 a 4-point scale (0: none to 1 Physical examination at Sc Vital signs at Screening, D Electrocardiograms (ECGs 	reening, Day 1, and Day 29 Visit ay 1, Day 15, and Day 29 Visits.) at Screening and Day 29 Visits.	at Screening and Day it. and stinging/burning the Investigator using ts.
	All randomized subjects who have the safety analysis.	received the treatment at least o	nce were included in
	Local tolerability was summarized time, and for worst response across any treated areas) was also sum incidence of AEs was summarized and Preferred Term (PT) for each t results, as well as laboratory param tables for the laboratory data were	Visits by zone and treatment. Tin marized in terms of frequency l in frequency tables by System reatment. Physical examination, eters, were summarized by descri	ne to first switch (for by treatment. The Organ Class (SOC) vital signs and ECG
. Statistical	This main purpose of this study w		

maximized conditions of use.	Therefore	there	Were	no	nrimory	~	aaaa 1	00
maximized conditions of use. endpoints.		there	were	110	primary	OF	secondary	efficacy
Pointoi								

Inferential statistical analysis

All randomized subjects with no major protocol deviation were included in the PK set. The following analyses were to be performed separately for each treatment group to evaluate the time effect, if sufficient quantifiable data. The parameters including Ctrough, AUC_{0-24h}, and C_{max} were submitted, after logarithmic transformation (Ln), to an analysis of variance. The model included time and subject as factors. The residual error variance was used to compute 90% confidence intervals (CIs) of the pairwise differences between time points (Days 1, 15 and 29 for AUC_{0-24h} and Cmax; Days 2, 10, 15, 16, 22, and 29 for Ctrough) on the Ln scale. The limits of the intervals were back-transformed into exponential to obtain 90% CIs of the ratios of geometric means between time points, on the original scale.

The following analyses were to be performed separately by study day to evaluate the group effect, if sufficient quantifiable data. The parameters including Ctrough, AUC0-24h, and C_{max} were submitted after Ln transformation, to an analysis of variance. The model included Group 1 as factor and 90% CIs of the pairwise differences between groups on the Ln scale were calculated. The limits of the intervals were back-transformed into exponential to obtain 90% CIs of the ratios of geometric means between groups, on the original scale.

of		CD5789 50 µg/g	CD5789 100 µg/g	TOTAL
Age (Years)	N	21	18	39
	Mean	20.81	21.78	21.26
ge,	SD	3.44	4.25	3.82
	Median	19.00	20.00	20.00
	Min-Max	18-31	18-34	18-34
	Q1-Q3	19-22	19-22	19-22
	18 to 64 Years N (%)	21 (100.0)	18 (100.0)	39 (100.0)
Gender	N	21	18	39
	Female N (%)	5 (23.8)	4 (22.2)	9 (23.1)
	Male N (%)	16 (76.2)	14 (77.8)	30 (76.9)
Race	N	21	18	39
	White N (%)	21 (100.0)	18 (100.0)	39 (100.0)
At Baselin comparable 77.8% in th of childbea used a horr mean age (eviation; Min = Minimum; Max = M e, the distribution of e for both treatment g the CD5789 50 µg/g an ring potential: 8/9 wo nonal intra-uterine de ± standard deviation minimum of 18 year	f age, gender, and groups. The majority of 100 μ g/g groups, romen were taking m evice. The subjects v [SD]) was 21.26 ve	race in the overall y of subjects were 1 respectively), and the edical contraception were all Caucasians ars (±3.82), with a	male (76.2% ne 9 women n and 1/9 wo

21. Safety outcomes

Overview of Adverse Events - Safety Population

	CD	5789 50 µg/g (N=21)	CD5789 100 µg/g (N=18)		
	N events	N(%) subjects	N events	N(%) subjects	
All AEs	97	14 (66.7)	114	16 (88.9)	
Related AEs	66	12 (57.1)	106	15 (83.3)	
All dermatologic AEs	74	13 (61.9)	107	15 (83.3)	
Related dermatologic AEs	66	12 (57.1)	106	15 (83.3)	
All serious AEs	0	0	0	0	
Related serious AEs	0	0	0	0	
Severe AEs	0	0	1	1 (5.6)	
Related severe AEs	0	0	1	1 (5.6)	
AEs of Special Interest	0	0	1	1 (5.6)	
Related AEs of Special Interest	0	0	1	1 (5.6)	
AEs leading to discontinuation	0	0	0	0	
Related AEs leading to discontinuation	0	0	0	0	
Deaths	0	0	0	0	

AE = Adverse event.

Table 6

Notes: AEs were defined as events that occurred the day of the first study medication application or after.

Numbers in columns cannot be added because a given subject could report more than one AE.

Overall, when pooling both CD5789 concentrations, 211 treatment-emergent AEs (TEAEs) were reported: 97 in the CD5789 50 μ g/g group and 114 in the CD5789 100 μ g/g group. The proportion of subjects who reported TEAEs was higher in the CD5789 100 μ g/g group (16/18 subjects, 88.9%) than in the CD5789 50 μ g/g group (14/21 subjects, 66.7%).

A total of 181 dermatologic TEAEs were reported: 74 reported by 13/21 subjects (61.9%) in the CD5789 50 μ g/g group and 107 reported by 15/18 subjects (83.3%) in the CD5789 100 μ g/g group.

-				
	-	b	10	
	а	υ	10	

Related Adverse Events - Safety Population

		CD5789 50 µg/g (N=21) N (%)	CD5789 100 µg/g (N=18) N (%)
TOTAL NUMBER OF AEs		66	106
TOTAL NUMBER OF SUBJECTS WITH AEs		12 (57.1)	15 (83.3)
SKIN AND SUBCUTANEOUS TISSUE DISORDERS		12 (57.1)	15 (83.3)
	Erythema	9 (42.9)	13 (72.2)
	Skin irritation	6 (28.6)	9 (50.0)
	Pruritus	2 (9.5)	5 (27.8)
	Skin exfoliation	3 (14.3)	5 (27.8)
	Skin burning sensation	2 (9.5)	3 (16.7)
	Dry skin	-	1 (5.6)
	Pain of skin	-	1 (5.6)
	Skin erosion	1 (4.8)	-

AE = Adverse event; SOC = System organ class; PT = Preferred term.

Notes: Treatment-emergent AEs were defined as events that occurred the day of the first study medication application or after.

A subject was counted once per PT even if more than 1 occurrence of the event was experienced.

A subject was counted once per SOC even if more than 1 event was experienced within the SOC.

Overall, 172/181 dermatologic TEAEs, all of which were in the SOC Skin and Subcutaneous Disorders, were considered related to the study treatment: 66 reported by 12/21 subjects (57.1%) in the CD5789 50 μ g/g group and 106 reported by 15/18 subjects (83.3%) in the CD5789 100 μ g/g group. The percentage of subjects reporting TEAEs in this SOC was higher in the CD5789 100 μ g/g group than in the CD 5789 50 μ g/g group. In total, 42.9% and 72.2% of subjects experienced erythema, 28.6% and 50.0% skin

·	
	irritation, and 9.5% and 27.8% had pruritus in the CD5789 50 μ g/g and 100 μ g/g group respectively.
	All reported TEAEs except one were of mild or moderate severity: one TEAE of sk irritation on the upper back reported on Day 15 by one subject in the CD5789 100 µg/was severe.
	There was one AE of special interest (AESI) reported by one subject in the CD5789 10 μ g/g group: this AESI of suspected contact allergy on the shoulders and back, which wa finally update as a cutaneous irritation, was of moderate intensity and assessed as relate to the study treatment by the Investigator.
	There were no deaths, no serious AEs (SAEs) and no TEAEs leading to discontinuation
	Overall, the worst scores for local tolerability including erythema, scaling, dryness, an stinging/burning were higher in the CD5789 100 μ g/g group than in the CD5789 50 μ g/g group over the treatment period, indicating that the 100 μ g/g cream was less well tolerated than the 50 μ g/g cream. This trend was confirmed after analysis of the first switch to a different area to be treated: subjects in the 100 μ g/g group had to switch to a different area earlier than subjects in the 50 μ g/g group and the percentage of subject who did not have to switch areas was higher in the CD5789 50 μ g/g group than in the CD5789 100 μ g/g group.
	No safety concerns with either the 50 or 100 μ g/g creams were raised after assessment of clinical laboratory safety tests including hematology, blood chemistry and urine screent test, vital signs, physical examinations or ECGs.
22. Summary (conclusion)	This study was conducted in male and female subjects aged 18 to 34 years old presenting severe acne vulgaris with an IGA score of 4, with at least 30 non-inflammatory lesions and at least 40 inflammatory lesions on the face. It aimed at assessing the systemic exposure of CD5789 after repeated once daily topical application of CD5789 50 μ g/g and 100 μ g/g creams. This assessment was done through determination of the PK parameters under maximal conditions of use. The study treatment was applied in a once daily regimen over a 29-day period on all skin areas potentially affected by acne (i.e. face, upper back, upper chest and shoulders).
	Repeated daily topical application of CD5789 cream in adult subjects resulted in very low systemic exposure. Overall, only 37% of subjects in the CD5789 50 μ g/g group and 61% in the CD5789 100 μ g/g group had quantifiable CD5789 plasma levels after 29 days of application.
	In the CD5789 50 μ g/g group, the most exposed subject had a C _{max} of 7.9 pg/mL and an AUC _{0-24h} of 104 pg.hr/mL at Day 29 (Male, 19 years old). In the CD5789 100 μ g/g group the most exposed subject had a C _{max} of 49 pg/mL and an AUC _{0-24h} of 456 pg.hr/mL (Female, 21 years old).
	CD5789 was characterized by a rapid absorption phase with a short and reproducible T_{max} (approximately 4 hours) and a short terminal $t_{1/2}$ (from 2.4 to 9.1 hours).
	No statistical demonstration of steady state (i.e. time effect) and dose proportionality (i.e. dose effect) could be performed in this study due to a high number of subjects with non- quantifiable plasma levels, specifically in the lower dose group. However, exposure of subjects in the CD5789 100 μ g/g group to a higher dose of CD5789 in comparison to those in the CD5789 50 μ g/g group increased the systemic exposure.
	Similarly, the comparable geometric C_{max} and AUC_{0-24h} means at Day 15 and Day 29 determined in the CD5789 100 µg/g group supported that no accumulation occurred over a 29-day period of topical treatment with CD5789 50 or 100 µg/g creams and that steady state conditions were achieved after 2 weeks of treatment. Furthermore, the absence of accumulation was consistent with the short absorption phase, the short terminal $t_{1/2}$ and the non-quantifiable systemic residual concentrations in most subjects. The overall PK

profile of CD5789 supported that accumulation of CD5789 was unlikely to occur after longer duration of treatment.
In addition, metabolism investigations performed using validated analytical methods for the three pharmacologically active metabolites in vitro (CD06530, CD06700 and CD09986) and the inactive one (CD09717), showed that all plasma concentrations of CD06700 and CD09717 were below the limit of quantification (<10 pg/mL). For CD06530, only 2 subjects treated with the highest strength of CD5789 cream (i.e. 100 μ g/g) displayed low quantifiable levels. For CD09986, only one subject displayed low quantifiable levels. Overall, no metabolites were quantified in adult acne subjects treated under maximal use conditions with 2 g of CD5789 50 μ g/g Cream.
Assessment of the disease severity confirmed that this study was conducted on subjects with severe acne ensuring an adequate assessment of CD5789 transdermal penetration in the targeted disease population under maximal use conditions.
Safety assessment showed that the percentages of subjects with at least one TEAE and with related TEAEs were higher in the CD5789 100 μ g/g group than in the CD5789 50 μ g/g group. The related AEs were all in the SOC Skin and Subcutaneous Disorders. One subject in the CD5789 100 μ g/g group experienced a severe skin irritation considered related to the study treatment by the Investigator. There was one AESI of cutaneous irritation reported by one subject in the CD5789 100 μ g/g group. There were no SAEs and no TEAEs leading to discontinuation.
Overall, local tolerability evaluation showed that the 100 μ g/g cream was less well tolerated than the 50 μ g/g cream. This trend was confirmed by a higher number of subjects who had to switch to a different area to be treated in the 100 μ g/g group than in the CD5789 50 μ g/g group.
No safety concerns with either the 50 or 100 μ g/g creams were raised after assessment of clinical laboratory safety tests, vital signs, physical examinations or ECGs.

Applicant (Marketing			
Authorization Holder)	(signature) Régis Schulz	GALDERMA SA Zählerweg 10 CH-6300 Zug	
	(full name)	058 455 85 00	

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period (clause 4 of Section IV)

Dopost on Clini

1 11 0.1	Report on Clinical Studies
1. Name of the	
medicinal	
product	
(marketing	AKLIEF cream 0,005 %
authorization	
number, if	
available)	
2. Applicant	Galderma SA
3.	LABORATOIRES GALDERMA
Manufacturer	ZI Montdesir
	74540 ALBY-SUR-CHERAN
	France
4. Studies con	ducted: $\overline{\mathbf{x}}$ yes $\overline{}$ no if no, to justify
1) type of	
medicinal	
product for	
which the	Medicinal product with complete dossier
registration	i and the complete dossier
was conducted	
or planned	
5. Full name	
of clinical	RD-06-SPR-103918 - A Phase 1, open-label, two-period, single-sequence drug-drug
study, code	interaction study to evaluate the effects of multiple dose CD5700 amount 100
number of	pharmacokinetics of single-dose levonorgestrel (0.15 mg) and ethinyl estradiol (0.03 mg) tablets, in healthy adult female subjects.
clinical study	y addre fernale subjects.
6. Clinical	
study phase	Phase 1
7. Clinical	
study period	- Date of first screened: 21 February 2017
, penea	- Date of last subject completed: 12 April 2017
8. Countries	United States of the states
where clinical	United States of America
study was	
conducted	
9. Number of	
subjects	A total of 24 subjects were enrolled in the study.
10. Aim and	
secondary	- To evaluate the effects of multiple-dose CD5789 100 μ g/g topical cream (2 g of topical formulation and 1 d d d d d d d d d d d d d d d d d d
	topical formulation applied once daily for 14 days) on the pharmacokinetics of a

purposes of clinical study	 single-dose of levonorgestrel (LNG; 0.15 mg)/ ethinyl estradiol (EE; 0.03 mg) in healthy adult female subjects. To assess the safety and tolerability of multiple-dose CD5789 100 µg/g topical cream (2 g of topical formation applied once daily for 14 days) in healthy adult female subjects.
11. Clinical study design	This was a Phase 1 open-label, two-period, single-sequence DDI study aimed at assessing the perpetrator potential of CD5789. In particular, this study assessed the CD5789 capability to reduce the systemic exposure of co-administered oral contraceptive steroids that are metabolized by the cytochrome P450 (CYP450) enzyme CYP3A4 (i.e., LNG [0.15 mg]/ EE [0.03 mg]).
	Towards this end, the pharmacokinetic (PK) profile of each component of the oral contraceptive (i.e., LNG and EE) was assessed before and after repeated applications of CD5789 100 μ g/g cream (2 g of topical formulation applied once daily for 14 days). In addition, the PK profile of CD5789 was measured at the end of the treatment period to confirm the exposure to the topical drug.
	Healthy female subjects were to receive a single-dose of LNG (0.15 mg)/ EE (0.03 mg) on Day 1 and Day 18, and once daily topical applications (n = 14) of CD5789 100 μ g/g cream from Day 5
	to Day 18. Both the oral contraceptive and CD5789 100 μ g/g cream were administered by qualified study personnel at the study center, in the morning. CD5789 100 μ g/g cream was applied on the face, shoulders, upper chest and upper back areas as evenly as possible (2 g/day). In case of skin irritation due to CD5789, application location could be temporarily changed to untreated adjacent areas until irritation was resolved, while maintaining the initial total daily dosing and surface area.
12. Main inclusion criteria	 Female ≥18 to ≤35 years of age inclusive at the time of Screening. Female of non-childbearing potential (post-menopausal [absence of menstrual bleeding for 1 year prior to screening, without any other medical reason], hysterectomy, or bilateral oophorectomy). Females of childbearing potential had to: Have a negative urine pregnancy test at Screening and Day -1 Be strictly abstinent for 1 month prior to Baseline and agrees to continue for the duration of the clinical trial and 1 week after last dose application OR Agree to use two effective forms of contraception for the duration of the study and at least 1 week after the last study drug application. The two forms of contraception authorized were defined as the use of a barrier method of contraception (condom with spermicide) in association with
	 one of the following methods of contraception: Bilateral tubal ligation Non hormonal Intra uterine device inserted at least 1 month prior to the Baseline visit Vasectomized partner for at least 3 months prior to the Baseline visit
	 Medically healthy on the basis of medical history, physical examination, and clinical laboratory testing. Clinical laboratory test results had to be within the laboratory normal range or, if outside of the laboratory normal range, deemed not clinically significant by the Principal Investigator or qualified designee. Body weight between 45 and 100 kg.

	provide and provid		
product,		Investigational Test Product	Investigational Reference Product
nethod of	Name of Drug Substance	Trifarotene	Levonorgestrel/ ethinyl estradiol
dministration	Internal Code	CD5789	Not applicable
strength	Pharmaceutical Form	Cream	Oral tablets
U	Strength/ Concentration	100 μg/g	
	Formula number	0219.0073	0.15 mg / 0.03 mg
	Batch number	16.01436	-
	Packaging (type and size)	30 mL amber glass	-
	Storage conditions	Store below 25°C (77°F), do not freeze or refrigerate	Store at controlled room temperature, 20° t 25°C (68°-77°F); excursions permitted betwee 15° to 30°C (59°-86°F)
	Dosage (total daily dose)	2g	0.15mg/0.03mg
	Route	Topical	Oral
	Dose Regimen	Once daily (morning)	
	Duration of administration	14 days	Single dose (morning)
	Location of Treated		Single doses at two periods 18 days apart
	Area	Face, shoulders, upper chest and upper back areas	-
dicinal duct,	Levonorgestrel/ ethin Test product dosage fo	yl estradiol, oral administration orm	n, 0.15 mg / 0.03 mg
thod of		Investigational Test Product	Investigational Reference Product
ninistration	Name of Drug Substance	Trifarotene	Levonorgestrel/ ethinyl estradiol
rength	Internal Code	CD5789	Not applicable
	Pharmaceutical Form	Cream	Oral tablets
	Strength/ Concentration	100 µg/g	0.15 mg / 0.03 mg
	Formula number	0219.0073	0.15 mg / 0.03 mg
	Batch number	16.01436	
	Packaging (type and size)	30 mL amber glass	
	Storage conditions	Store below 25°C (77°F), do not freeze or refrigerate	Store at controlled room temperature, 20° to 25°C (68°-77°F); excursions permitted betwee 15° to 30°C (59°-86°F)
	Dosage (total daily dose)	2g	0.15mg/0.03mg
	Route	Topical	Oral
	Dose Regimen	Once daily (morning)	Single dose (morning)
	Duration of administration	14 days	
			Single doses at two periods 18 days apart
	Area	ace, shoulders, upper chest and upper back areas	~
comitant apy	Not Applicable		
Efficacy uation eria	Not Applicable		
Safety uation ria	 Local tolerability (erythema, scaling, dryness, stinging/burning), at each visit from Day 5 visit to the end of the study (Day 28/early termination [ET] visit). Local tolerability was assessed separately on the face and on the trunk using specific 4-point scales (ranging from 0 [none] to 3 [severe]) Adverse events (AEs) at each visit Hematology, blood chemistry and urinalysis at Screening and Day 18 visits Vital signs and physical examination at Screening and Day 28/ET visits Urine drug screen and alcohol breath test at Screening, Day -1, and Day 17 visits 		

	 Pregnancy test at Screening, Days -1, 5, 18 and 28/ET visits, or any other time points at the Investigator's discretion
18. Statistical methods	The PK analysis set included all subjects in the Safety analysis set who provided at least one post Baseline evaluable drug concentration value. Pharmacokinetic analyses were based on observed cases. The safety analysis set included all subjects who applied/were administered the study products at least once.
	For each component of the oral contraceptive (i.e., LNG and EE), AUC_{0-t} , AUC_{0-inf} , and C_{max} were submitted, after logarithmic (Ln) transformation, to 2 separate analyses of variance. The model included time and subject as factors. The residual error variance was used to compute 90% confidence intervals (CIs) of the pairwise differences between Day 18 visit (oral contraceptive + CD5789) and Day 1 visit (oral contraceptive alone) on the Ln scale. The limits of the intervals were back-transformed into exponential to obtain 90% CIs of the ratios of geometric means between LNG (0.15 mg)/ EE (0.03 mg), alone and co-administered with CD5789, on the original scale.
	A DDI could be concluded if the Test (LNG $[0.15 \text{ mg}]$ / EE $[0.03 \text{ mg}]$ + CD5789) to Reference (LNG $[0.15 \text{ mg}]$ / EE $[0.03 \text{ mg}]$ alone) 90% CIs for the geometric least squares mean ratios did not fully fall inside the accepted 80-125% range for AUC _{0-t} , AUC _{0-inf} , and C _{max} .
10	Safety data were summarized descriptively.
19. Demographic indicators of the study population (gender, age, race, etc.)	The majority of the subjects were White (18 [75.0%] subjects), and had skin phototype III (17 [70.8%] subjects). Mean \pm SD age was 27.0 \pm 4.60 years (ranging from 19 to 35 years), and mean \pm SD BMI was 25.1 \pm 2.69 kg/m ² (ranging from 20 to 29 kg/m ²).
20. Efficacy outcomes	Not Applicable
21. Safety	Local tolerability
outcomes	Skin irritation on the face reached a peak after 4 applications of CD5789 100 μ g/g cream (i.e., at Day 9 visit). Skin irritation on the trunk was overall stable, although it seemed to worsen a few days after the last study drug application at Day 18 visit (i.e., at Day 20 and Day 21 visits).
	For subjects with scores worsened from pre-treatment (Day 5), worst scores were mostly moderate for erythema, scaling and dryness, and mild or moderate for stinging/burning, on both face and trunk. Severe scores were reported in 1 subject for erythema and 2 subjects for stinging/burning on the face, and 2 subjects for stinging/burning on the trunk.
	At the final visit (Day 28), none of the subjects had local tolerability signs/symptoms on the face, as these had resolved, while mild or moderate erythema (in 10 subjects), scaling (in 14 subjects) and dryness (in 14 subjects) were still observed on the trunk.
	During the treatment period with CD5789 $100\mu g/g$ cream, mean scores for erythema, dryness, scaling and stinging/burning were higher on the face than on the trunk, showing a better tolerability profile to CD5789 $100 \mu g/g$ cream for the trunk compared to the face.
	• AEs
	A total of 37 AEs were reported in 19 (79.2%) subjects; of these, 32 AEs in 18 (75.0%) subjects were reported during the treatment with CD5789 100 μ g/g cream alone and were

	eve	aneous in nature. All AEs resolved during the study, and, except for one modera nt of sinusitis, they were of mild intensity.	ite	
	Of con (PT trea rela	the 9 treatment related AEs, 7 (in 5 [20.8%] subjects) were cutaneous in nature and sidered as related to CD5789 100 μ g/g cream. The remaining 2 treatment related AI is: headache and dysmenorrhea) were reported by 2 (8.3%) subjects during the timent period with CD5789 100 μ g/g cream plus LNG/ EE and were considered at ted to the oral contraceptive. All of the treatment related AEs were of mild intensitie e led to study discontinuation, and they all resolved during the study.	Es he	
	A to the	otal of 26 AEs in 16 (66.7%) subjects were considered by the Investigator as related the study procedure (to the use of Cetaphil products [cleanser and/or lotion/moisturized on]).	er	
	appl subj disc clear	se AEs included all of the events of application site pain (reported as burning: 2 nts in 15 [62.5%] subjects), which was the most frequently reported AE, and c lication site discomfort (reported as stinging and burning: 2 events in 1 [4.2% ect). All of these AEs were of mild intensity, none of them led to stud ontinuation, and they all resolved during the study after changing the nser/moisturizer (to cream products or petroleum jelly).	of 6] ly ne	
	No s were	serious AEs, AEs of special interest, AEs leading to study discontinuation, or death e reported during the study.	IS	
		Clinical laboratory evaluations		
	norn	rall, hematology and blood chemistry values remained stable over time. Shifts from nal values at Screening to high or low values at Day 18 visit were considered as clinically significant.	1	
	All c	of the positive urinalysis results were considered as non-clinically significant.		
	•	sights, physical infungs, and other observations related to safety		
	Vital abno	signs remained stable over time and were all within the normal range. All of the rmal physical findings were considered as non-clinically significant.	e	
		Pregnancies		
	One CD5 The l	subject (i.e., Subject 8596-018) had a positive pregnancy test after the last doses of 789 100 μ g/g cream and of the oral contraceptive were administered at Day 18 visit ast	f	
	2017, repor	truation for this subject was on 03 March 2017 and date of delivery is expected to B December 2017; she was exposed to CD5789 from 21 March 2017 to 03 April so the embryo was exposed for approximately 13 days to CD5789. At the time this t was written, the pregnancy was ongoing. At the latest follow-up (12 July 2017), regnancy was progressing well.	1	
22. Summary (conclusion)	These media	This study showed that the PK parameters of LNG and EE before and after repeated daily applications of CD5789 100 μ g/g cream were equivalent, confirming the absence of DDI. These results indirectly demonstrated that CD5789 does not induce enzymatic activities mediated by CYP3A4. The safety profile of CD5789 100 μ g/g cream was as expected for topical retinoids.		
A 11				
Applicant (Mark	teting	(signature) GALDERMA SA		
Authorization		Régis Schulz Zählerweg 10 (full name) CH-6300 Zug		
Holder)		(full name) CH-6300 Zug 058 455 85 00		

to the Procedure for expertise of registration materials for medicinal products submitted for state registration (renewal), as well as expertise of the materials on variations to the registration materials during the marketing authorization validity period (clause 4 of Section IV)

Report on Clinical Studies 1. Name of the medicinal product (marketing AKLIEF cream 0,005 % authorization number, if available) 2. Applicant **Galderma SA** 3. LABORATOIRES GALDERMA Manufacturer **ZI Montdesir** 74540 ALBY-SUR-CHERAN France 4. Studies conducted: X yes Π no if no, to justify 1) type of medicinal product for which the Medicinal product with complete dossier registration was conducted or planned 5. Full name RD-06-SRE-18213 - Exploratory study to evaluate the safety and efficacy of different of clinical formulations and concentrations of CD5789 in subjects with acne vulgaris study, code number of clinical study 6. Clinical Phase 1 Human Pharmacology study study phase 7. Clinical Date of first subject screened: 17 March 2011 study period Date of last subject completed:23 May 2011 8. Countries United States of America where clinical study was conducted 9. Number of Approximately 60 subjects were to be randomized to ensure that per protocol data of 17 subjects subjects per group were available for evaluation at the end of the study.

10. Aim and	
secondary purposes of clinical study	To evaluate the safety and efficacy of CD5789 in different formulations and concentrations (50 μ g/g gel versus cream A at 25 μ g/g or 50 μ g/g) in subjects with moderate to severe acne vulgaris after 4 weeks of once daily application, 5 days per week.
11. Clinical study design	Exploratory, multi-center, randomized, investigator blinded, vehicle controlled study using intra-individual comparison (right versus left) in 3 parallel groups:
	 Group 1: CD5789 25μg/g cream A versus vehicle: subjects were to be treated, with 500 μL of CD5789 25μg/g cream A on one half face and other half face received 500 μL of the vehicle cream. Group 2: CD5789 50μg/g cream A versus vehicle: subjects were to be treated with 500 μL of CD5789 50μg/g cream A on one half face and other half face received 500 μL of the vehicle cream. Group 3: CD5789 50μg/g gel versus vehicle: subjects were to be treated, with 500 μL of CD5789 50μg/g gel versus vehicle: subjects were to be treated, with 500 μL of CD5789 50μg/g gel on one half face and other half face received 500 μL of the vehicle cream.
12. Main	Key inclusion criteria
inclusion criteria	 Male or female subjects aged 18-35 years old, with: Moderate to severe facial acne vulgaris (at least 20 inflammatory lesions and 30 non-inflammatory lesions, excluding nose) at Screening and Baseline; Investigators' global assessment (IGA) severity grade 3 or 4 at Screening and baseline; Fitzpatrick a skin phototype of I to IV at Screening.
13.	
Investigational medicinal product, method of administration , strength	 Cream A: CD5789, cream, topical administration, strength: 50µg/g & 25µg/g Gel: CD5789, gel, topical administration, strength: 50µg/g
14. Reference	- Vehicle product: groom A tanial 1 i i i and
medicinal product, method of administration , strength	 Vehicle product: cream A, topical administration, strength: Not Applicable Vehicle product: gel, topical administration, strength: Not Applicable
15. Concomitant therapy	Not Applicable
16. Efficacy	Efficacy measurements:
evaluation criteria	 Lesion counts: inflammatory lesion count (papules, pustules), non-inflammatory lesion count (open and closed comedones), other acne lesion count (nodules); total lesion count will be calculated as the sum of inflammatory lesions, non-inflammatory lesions and nodules. Investigator and subject efficacy preference at Final visit (Day 29).
	Efficacy criteria
	- Primary efficacy criteria

	 Total acne lesion count (clinically assessed) and percent reduction at the end of treatment. Secondary efficacy criteria Inflammatory, non-inflammatory and total acne lesion count as well as percent reduction at each visit per half face. Subject and investigator efficacy preference at the end of treatment Other Cosmetic acceptability.
17. Safety evaluation criteria	 Adverse events at each visit following Screening visit; Local tolerance assessed on each half-face using a 4-point skin reaction scale at every visit from Baseline (Day 1) to Final visit (Day 29); Physical examination and vital signs at Screening, Baseline (Day 1) and Final visit (Day 29); Laboratory safety testing at Screening and Final visit (Day 29).
18. Statistical methods	Local tolerability scores were summarized using means over time and worst response across visits. Adverse events, general physical examination, vital signs, laboratory parameters and cosmetic acceptability questionnaires were summarized by descriptive statistics. Efficacy data were analyzed at each visit for the per protocol population, and for endpoint response in the ITT population (using the last observation of the treatment period carried forward). Lesion counts (inflammatory, non-inflammatory and total) as well as percent reduction in lesion counts were descriptively summarized by visit and by treatment received. The bilateral differences between treatments were summarized and analyzed by visit using a Wilcoxon rank signed test. Investigator and subject's preferences were analyzed using a sign test. All tests were two-sided and the 5% probability level was chosen to declare significance.
19. Demographic indicators of the study population (gender, age, race, etc.)	Six US centers screened 95 subjects (ranging from 2 to 43 subjects per center). Among these, 59 were randomized. The ratio of number of subjects between groups was well balanced: 21 in CD5789 25µg/g cream A versus vehicle, 19 in CD5789 50 µg/g cream A versus vehicle and 19 in CD5789 50 µg/g gel versus vehicle. Three subjects (2 in group CD5789 50 µg/g cream A versus vehicle and one in group CD5789 50µg/g gel versus vehicle) had at least one major deviation (one used prohibited medication and 2 had issues with treatment compliance). Those 3 subjects were excluded from the PP population, but included in the ITT and Safety populations. None of the 59 randomized subjects discontinued the study prematurely. As presented in Table 1, most of the randomized subjects were white (89.8%) and 50.8% were female. The mean age was 21.6 years (range 18-31).

				Rand	omized	
		Screened	CD5789 25µg/g cream A versus vehicle	CD5789 50µg/g cream A versus vehicle	CD5789 50µg/g gel versus vehicle	All
Gender	N	95	21	19	19	59
	Male	40 (42.1%)	9 (42.9%)	9 (47.4%)	11 (57.9%)	29 (49.2%)
	Female	55 (57.9%)	12 (57.1%)	10 (52.6%)	8 (42.1%)	30 (50.8%)
Race	N	95	21	19	19	59
	White	84 (88.4%)	17 (81.0%)	18 (94.7%)	18 (94.7%)	53 (89.8%)
	Black or African American	4 (4.2%)	2 (9.5%)	0 (0.0%)	0 (0.0%)	2 (3.4%)
	Asian	2 (2.1%)	1 (4.8%)	0 (0.0%)	0 (0.0%)	4 /4 70()
	Other	5 (5.3%)		1 (5.3%)		1 (1.7%)
Age (years)	Ν	95		19		3 (5.1%)
	Mean	22.6				59
	SD	4.4				21.6
	Median	21.0				3.4
	(Min,Max)	(18,39)				21.0
Phototype	N	70				(18,31)
	1	4 (5.7%)				59
		24 (34.3%)				3 (5.1%)
	III	26 (37.1%)				20 (33.9%)
	IV	16 (22.9%)			a Martin and a state of the sta	21 (35.6%)
Ethnicity	N	95				15 (25.4%)
	Hispanic or Latino	15 (15.8%)				59
	Not Hispanic or Latino	80 (84.2%)		-		6 (10.2%)
And the second se	Liter hopune of Latito	00 (04.2%)	20 (95.2%) 1	8 (94.7%)	15 (78.9%)	53 (89.8%)

Table 3 Total Lesions Count

Total lesion	1		vehicle	am A versus	CD5789	CD5789 50µg/g cream A versus vehicle			CD5789 50µg/g gel versus vehicle		
count		Active	Vehicle	A - V	Active	Vehicle	A - V	Active	Vehicle	A - V	
Day 01 (ITT)	N	21	21	21	19	19	19	19	19	10	
	Mean	37.1	36.4	0.7	33.1	34.4	-1.3			19	
	SD	15.7	11.6	7.3	11.1	11.3	3.0			-29 6.0	
	Median	320	32.0	0.0	29.0	31.0	0.0			-	
	(Min,Max)	(220,87.0)	(28.0,64.0)	(-11.0,23.0)	(24.0,62.0)	(250,660)	(-80,30)	-		-3.0	
	P-value*	-	-	0.805	-	-	0.087	20.0,00.0	(200,00.0)	(-120,120 0.044	
Endpoint (ITT)	N	21	21	21	19	19	19	19	10	19	
(111)	Mean	31.0	33.3	-24	28.1	28.1	0.0			-5.3	
	SD	182	21.5	7.6	18.5	24.3	10.5				
	Median	29.0	28.0	-20	21.0	20.0	-1.0			8.1	
	(Min,Max)	(9.0,89.0)	(13.0,101.0)	(-18.0,15.0)	(9.0,81.0)	(4.0,88.0)	(-22.0,17.0)			-4.0	
	P-value*	-	-	0.180	-	(1.0,00.0)	>0.999	(0.0,04.0)	(11.0,76.0)	(-24.0,9.0)	
Day 01 (PP)	N	21	21	21	17	17	17	10	- 10	0.008	
	Mean	37.1	36.4	0.7	33.6	35.1	-1.4			18	
	SD	15.7	11.6	7.3	11.7	11.7	32			-2.7 6.1	
	Median	320	320	0.0	29.0	31.0	0.0				
	(Min,Max)	(220,87.0)	(28.0,64.0)	(-11.0,23.0)	(24.0,62.0)	(25.0,66.0)	(-80,30)	138 148 300 340)30) (250,680) (250,800) 87 - - 19 19 19 24.4 29.7 15.8 17.6 18.0 25.0 0.0 0.10,760) 999 - - - 18 18 18 36.9 39.6 14.1 152 300 340 340	-3.0		
	P-value*	-	-	0.805	-	-	0.089	(20.0,00.0)	(20.0,80.0)	(-120,120)	
Day 29 (PP)	N	21	21	21	17	17	17	18	- 10	0.072	
	Mean	31.0	33.3	-24	28.1	29.1	-0.9			18	
	SD	182	21.5	7.6	19.3	25.6	10.3	162		-5.6	
	Median	29.0	28.0	-20	21.0	20.0	-1.0	18.0	18.1	82	
	(Min,Max)	(9.0,89.0)	(130,101.0)	(-18.0,15.0)	(9.0,81.0)	(4.0,88.0)	(-220,17.0)	(5.0,64.0)	24.0	4.0	
	P-value*	-	-	0.180	-	(10,00.0)	0.770	(0.0,04.0)	(11.0,76.0)	(-24.0,9.0) 0.008	

* p-value by two-sided Wilcoxon rank signed test

A - V is Active - Vehicle

- Percent reduction in total lesion count at the end of treatment

At Day 29, the difference between active and vehicle was not statistically significant for the percent reduction in total lesion count for any treatment (PP population and confirmed in the ITT population).

In terms of median percent reduction the difference did not exceed 3.7% for CD5789 50 $\mu g/g$ gel.

Table 4 Percent reduction in total lesion count

	1	CD5789 2	CD5789 25µg/g cream A versus vehicle			50µg/g crea vehicle	m A versus	CD5789 50µg/g gel versus vehicle		
in total lesion count		Active	Vehicle	A - V	Active	Vehicle	A - V	Active	Vehicle	A – V
	N	21	21	21	19	19	19	19	19	19
	Mean	17.1	115	5.6	19.5	26.7	-72	35.1	273	7.8
	SD	34.8	379	23.8	302	392	30.4	273	221	182
	Median	21.6	125	24	25.0	382	-75	452	320	33
	(Min,Max)	(-50.0,67.9)	(-57.9,56.7)	(-53.4,55.5)	(-30.6,67.9)	(57.1.87.1)	(-621,453)	(-24,5,82,8)	(-14.8,621)	(-16.4,47.3)
	P-value*	-	-	0.317	-	-	0.395	-	(140,021)	0.169
Day 29 (PP)	N	21	21	21	17	17	17	18	18	18
	Mean	17.1	115	5.6	212	26.1	49	36.7	275	
in total lesion count Endpoint (ITT)	SD	34.8	379	23.8	30.3	41.5	29.0	272	21.5	92
	Median	21.6	125	24	250	382	-75	453		17.7
	(Min,Max)	(-50.0,67.9)	(-57.9,56.7)		(-30.6,67.9)	(-57.1.87.1)	(-621,453)		33.1	3.7
	P-value*	-	-	0.317	-	101.101.1	0.579	(-24.5,82.8)	(-14.8,62.1)	(-126,47.3) 0.090

p-value by two-sided Wilcoxon rank signed test

A - V is Active - Vehicle

Secondary efficacy criteria

 Inflammatory lesion count and percent reduction in inflammatory lesion count (clinical evaluation)

No statistically significant difference between the active and the vehicle was observed in any treatment group at any timepoint, neither in terms of lesion count nor in terms of percent reduction.

- Non inflammatory lesion count and percent reduction in non-inflammatory lesion count (clinical evaluation)

The difference between active and vehicle was statistically significant for non-inflammatory lesion counts on Day 22 and Day29, but not for percent reduction for the group CD5789 50 μ g/g gel versus vehicle.

No significant difference was found in non-inflammatory lesion counts and percent reduction at any time point between CD5789 cream A at any dose and the vehicle.

- Total lesion count and percent reduction in total lesion count (clinical evaluation)

For the CD5789 50 μ g/g gel versus vehicle group at Day 08, 22 and 29, the difference between the active and vehicle was statistically significant for total lesion counts but not for the percent reduction.

There were no significant differences in total lesion counts and percent reduction at any timepoint between CD5789 cream A at any dose and the vehicle.

- Distribution of efficacy preference by Investigator and subjects (clinical evaluation)

Investigators preferred CD5789 50 μ g/g gel in 38.9 % of subjects compared to 16.7% of subjects treated with the vehicle gel (PP population) 44.4% had no preference. This difference was not significant. For both Cream A vs vehicle groups the majority of investigators had no preference neither for the active nor for the vehicle.

Results from the investigators' evaluation were paralleled by those provided by subjects for the CD5789 50 μ g/g gel group: 55.6% of subjects preferred the active over its vehicle.

When comparing the active and the vehicle in the CD5789 50 μ g/g cream A group, notably more subjects preferred the active treated side compared the vehicle treated side (52.9 vs. 17.6%, respectively). However, this difference was not statistically significant. In the CD5789 25 μ g/g cream A vs vehicle group, no difference between the active and the vehicle were noted.

Other Assessments

- Cosmetic acceptability

The cosmetic acceptability questionnaire completed by the subjects did not show statistically significantly difference between the vehicle and the active treatments, except for "feeling on the face" where the vehicle was statistically significantly better rated (p = 0.0005) than CD5789 50 µg/g gel.

21. Safety outcomes During the course of the study, 2 subjects in the CD5789 50 μ g/g gel versus vehicle group had, due to irritation, their dosage regimen modified, the first occurrence was for one subject on Day 05 and for the 2nd subject on Day 11.

The mean number of missing applications due to irritation was 3.5 days, with CD5789 50 μ g/g gel, only. The mean number of missing applications due to other reasons than irritation (including missing visits) ranged from 1 to 2.4 days for all treatment groups.

The mean number of applications received ranged from 19.4 (CD5789 50 μ g/g cream A and gel groups) to 19.8 for the CD5789 25 μ g/g cream A group. The theoretical number of applications to be received was 20.

- Adverse Events

Overall there were no deaths, serious adverse events or adverse events of special interest reported. None of the adverse events led to the discontinuation of study subjects.

In the CD5789 25 μ g/g cream versus vehicle group, 5 adverse events in 5 subjects were reported. One event, pruritus, was evaluated as mild and considered related to the vehicle.

Six (6) adverse events in 5 subjects were reported with CD5789 50 μ g/g cream A; none was considered related or severe.

Five (5) adverse events in 4 subjects were reported in the CD5789 50 μ g/g gel versus vehicle group. Two events (skin burning sensation and skin discomfort) in 2 subjects were considered related to the study drug, both were considered severe.

• CD5789 25µg/g cream A versus vehicle group

In the CD5789 25 μ g/g cream A versus vehicle group 5 adverse events in 5 subjects were reported. One event, mild pruritus, was considered related to the vehicle (Table 5).

	CD5789 25µg/g cream A (N= 21)				Vehicle (N= 21)			Total (N= 21)		
	n events	n subj.*	% subj.	n events	n subj.*	% subj.	n events	n subj.*	% subj	
All AEs	4	4	19.0	5	5	23.8	5	5	23.8	
Related AEs	0	0	0.0	1	1	4.8	1	1		
All dermatologic AEs	0	0	0.0	1	1	4.8	1	1	4.8	
Related dermatologic AEs	0	0	0.0	1	1	4.8	1	1	4.8	
AESI	0	0	0.0	0	0		1	1	4.8	
All severe AEs	1	1	4.8		0	0.0	0	0	0.0	
Related severe AEs	0	0		1	1	4.8	1	1	4.8	
All serious AEs	0	-	0.0	0	0	0.0	0	0	0.0	
Related serious AEs		0	0.0	0	0	0.0	0	0	0.0	
	0	0	0.0	0	0	0.0	0	0	0.0	
All AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Deaths	0	0	0.0	0	0	0.0	0	0	0.0	

Table 5 Overview of adverse events: CD5789 25µg/g cream A versus vehicle

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: Numbers in columns cannot be added as a given subject may have reported more than one AE.

CD5789 50µg/g cream A versus vehicle

Six (6) adverse events in 5 subjects were reported with CD5789 50 μ g/g cream A. None was considered related or severe (Table 6).

Table 6

6 Overview of adverse events: CD5789 50μg/g cream A versus vehicle

	CD5789 50µg/g cream A (N= 19)				Vehicle (N= 19)			Total (N= 19)		
	n events	n subj.*	% subj.	n events	n subj.*	% subj.	n events	n subj.*	% subj	
All AEs	6	5	26.3	6	5	26.3	6	5	26	
Related AEs	0	0	0.0	0	0	0.0	0			
All dermatologic AEs	0	0	0.0	0	0	0.0	0	0	0.	
Related dermatologic AEs	0	0	0.0	0	0	0.0		0	0.	
AESI	0	0	0.0	0	0		0	0	0.	
All severe AEs	0	0				0.0	0	0	0.	
Related severe AEs	0		0.0	0	0	0.0	0	0	0.	
All serious AEs		0	0.0	0	0	0.0	0	0	0.	
	0	0	0.0	0	0	0.0	0	0	0.0	
Related serious AEs	0	0	0.0	0	0	0.0	0	0	0.0	
All AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Deaths	0	0	0.0	0	0	0.0	0	0	0.0	

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: Numbers in columns cannot be added as a given subject may have reported more than one AE.

CD5789 50μg/g gel versus vehicle

Five (5) adverse events in 4 subjects were reported in the CD5789 50 μ g/g gel versus vehicle group. Two events (skin burning sensation and skin discomfort) in 2 subjects were considered related to the study drug, both were considered severe (Table 7).

Table 7 Overview of adverse events: CD5789 50µg/g gel versus vehicle

	CD5789 50µg/g gel (N= 19)				Vehicle (N= 19)			Total (N= 19)		
	n events	n subj.*	% subj.	n events	n subj.*	% subj.	n events	n subj.*	% subj	
All AEs	5	4	21.1	3	2	10.5	5	4	21.1	
Related AEs	2	2	10.5	0	0	0.0	2	2	10.5	
All dermatologic AEs	2	2	10.5	0	0	0.0	2	2	10.5	
Related dermatologic AEs	2	2	10.5	0	0	0.0	2	2		
AESI	0	0	0.0	0	0	0.0	0	0	10.5	
All severe AEs	3	3	15.8	1	1	5.3	3	3	0.0	
Related severe AEs	2	2	10.5	0	0	0.0	2	-	15.8	
All serious AEs	0	0	0.0	0	0	0.0	0	2	10.5	
Related serious AEs	0	0	0.0	0	0		-	0	0.0	
All AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Related AEs leading to discontinuation	0	0	0.0	0	0	0.0	0	0	0.0	
Deaths	0	0	0.0	0	0	0.0	0	0	0.0	

Adverse events are summarized only for events occurred after the first use of medication.

If an AE is not zone specific it will be summarized in each study treatment.

Note: Numbers in columns cannot be added as a given subject may have reported more than one AE.

- Local Tolerability

Clinical irritation was assessed on each half face prior to treatment application at every visit from Baseline (Day 01) to the Final visit (Day 29)/early termination visit. The highest severity scores recorded over time are summarized in Table 8.

As expected, occurrence of erythema, scaling, dryness and stinging/burning were higher on the active-treated sides than on the vehicle-treated sides.

The severity and frequency of signs/symptoms were more important with CD5789 50 $\mu g/g$ gel when compared to the cream A (50 $\mu g/g$ and 25 $\mu g/g$) and the vehicle formulations.

		CD5789 2 A vers	5µg/g cream us vehicle		0µg/g cream us vehicle		50µg/g gel s vehicle
		Active (N=21)	Vehicle (N=21)	Active (N=19)	Vehicle (N=19)	Active	Vehicle (N=19)
Worst score for Erythema	N	21	21	19	19	19	
Liythenia	0-None	12 (57.1%)	13 (61.9%)	5 (26.3%)	9 (47.4%)	1 (5 3%)	10 (52.6%
	1-Mild	9 (42.9%)	8 (38.1%)	11 (57.9%)	9 (47.4%)		7 (36.8%)
	2-Moderate	0 (0.0%)	0 (0.0%)	3 (15.8%)	1 (5.3%)	(N=19) (N= 19 19 1 (5.3%) 10 (52 7 (36.8%) 7 (36.8) 11 (57.9%) 2 (10.8) 19 19	
Vorst score for Scaling	N	21	21	19	19		-
Scaling	0-None	13 (61.9%)	16 (76.2%)	7 (36.8%)	14 (73.7%)		
	1-Mild	5 (23.8%)	5 (23.8%)	10 (52.6%)	5 (26.3%)		1
	2-Moderate	3 (14.3%)	0 (0.0%)	2 (10.5%)	0 (0.0%)		
Worst score for	N	21	21	19	19		
Dryness	0-None	12 (57.1%)	15 (71.4%)	3 (15.8%)	14 (73.7%)		
	1-Mild	7 (33.3%)	6 (28.6%)	14 (73.7%)	5 (26.3%)		
	2-Moderate	2 (9.5%)	0 (0.0%)	2 (10.5%)	0 (0.0%)		
Worst score for	N	21	21	19	19		
Stinging/Burning	0-None	16 (76.2%)	17 (81.0%)	4 (21.1%)	18 (94.7%)		
	1-Mild	4 (19.0%)	3 (14.3%)	12 (63.2%)	1 (5.3%)		
	2-Moderate	1 (4.8%)	1 (4.8%)	2 (10.5%)	0 (0.0%)	6 (31.6%)	1 (5.3%)
	3-Severe	0 (0.0%)	0 (0.0%)	1 (5.3%)	0 (0.0%)	5 (26.3%)	0 (0.0%)

 Table 8
 Frequency tables for worst score of each signs/symptoms

- Laboratory testing

22. Summary

Results from standard laboratory testing at Day 29 /early termination on biochemistry and hematology parameters did not show any relevant changes from laboratory values at screening.

(conclusion) For this exploratory study a total of 95 subjects with acne vulgaris were screened, 59 were randomized in 3 groups as follows: 21 in CD5789 $25\mu g/g$ cream A versus vehicle, 19 in CD5789 50 $\mu g/g$ cream A versus vehicle and 19 in CD5789 50 $\mu g/g$ gel versus vehicle.

None of the 59 randomized subjects discontinued the study prematurely.

Efficacy results demonstrated that there was no significant difference between the active and the vehicle, in total, inflammatory and non-inflammatory lesion counts and respective percent reduction from Day 01 for group CD5789 25 μ g/g cream A and group CD5789 50 μ g/g cream A. No trend of investigator and subject preference for the active side was detected.

In the CD5789 50 μ g/g gel group, only total and non-inflammatory lesion counts were significant different in favor of the active treatment. A slight trend in the investigator preference for the active treated side was detected but was not significant.

Higher severities and frequencies of local signs/symptoms occurred with CD5789 50 μ g/g gel, followed by the CD5789 50 μ g/g cream A. Two (2) subjects in the CD5789

50µg/g gel group had related dermatological AEs (skin burning sensation and skin discomfort) leading to missing applications.
Local tolerability was best with CD5789 25 μ g/g cream A and worse with CD5789 50 μ g/g gel. Tolerability with CD5789 50 μ g/g Cream was intermediate.
Results for standard laboratory testing, vital signs assessments and physical examinations at Day 29 /early termination were not different from results prior to drug application.

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