Sponsor Novartis Generic Drug Name SAF312 **Therapeutic Area of Trial** Postoperative dental pain patients **Approved Indication** Investigational **Protocol Number** CSAF312A2103 **Title** A double-blind, randomized, single dose, placebo-controlled, three part study to evaluate the safety and tolerability of SAF312 in postoperative dental pain patients (Part A), to evaluate the analgesic effect of SAF312 in comparison to placebo in the treatment of postoperative dental pain using ibuprofen as a positive control (Part B) and to evaluate a dose response (Part C). **Phase of Development** IIa/IIb **Study Start/End Dates** 29-Sep-2009 to 31-May-2011 Study Design/Methodology A double-blind, randomized, single dose, placebo controlled, three part study to evaluate the safety and tolerability of SAF312 in postoperative dental pain patients (Part A), to evaluate the analgesic effect of SAF312 in comparison to placebo in the treatment of postoperative dental pain using ibuprofen as a positive control (Part B) and to evaluate a dose response (Part C). **Centres** Single centre: United States

Publication

NA

Outcome measures

Primary outcome measures

• The primary efficacy measure was summed pain intensity difference [SPID(0-6)] from 0 to 6 hours.

Secondary outcome measures

- Time-specific PID and pain relief (PR) based on the categorical scale and PID based on the visual analog scale (VAS) at different time intervals up to 24 hours post dose.
- Total Pain Relief (TOTPAR) scores from 0 to 24 hours.
- Time to onset of analgesia, time to rescue medication intake, proportion of patients requiring rescue medication in the first six (6) hours, and patient global evaluation.
- Safety and tolerability assessments consisted mainly of vital signs, body temperature, thermal perception (Part C only), ECG evaluation, cardiac Holter monitoring (Part A only), and collecting all adverse events (AEs).
- The following PK parameters were determined using non-compartmental analysis from the plasma concentration-time data of SAF312 and ibuprofen (for Part A and Part B only): AUCinf, AUClast, Cmax, Tmax, Lambda z and T1/2.

Test Product (s), Dose(s), and Mode(s) of Administration

Test drug, ibuprofen and placebo were administered orally as a single dose in the form of hard gelatin capsules (SAF312: 2.5 mg, 10 mg, 25 mg and 100 mg; Ibuprofen 200 mg).

Statistical Methods

All data for background and demographic variables, relevant medical history/current medical conditions and teeth extraction record, safety and tolerability variables were listed by treatment group and patient, and summarized in a descriptive manner based on the safety population. Descriptive statistics (including geometric mean) were provided for the PK parameters.

Summaries of PID(-categorical), PR and VAS were presented. TOTPAR and SPID(0-6) were calculated as the area under the PR or PID curves over time, respectively, standardized by the time range. For patients that drop out or take the rescue medication after the first 90 minutes, the LOCF was applied. The primary analysis, was performed at the final analysis of study part B (and including data from study part A), following Bayesian approach, assessing the efficacy of single doses of SAF312 (high dose and ¼ of the high dose) as compared to placebo, measured by the SPID(0-6). In addition, ANCOVA models were fitted separately to TOTPAR, SPID(0-6) and the VAS data, including treatment/dose and number of removed teeth as factors, and the baseline PR, PI or VAS value, respectively, as a covariate. Cochran-Mantel-Haenszel tests were used for PID (each time point), PR (each time point), adjusting for number of teeth removed. Treatment group comparisons were made for each active treatment and dose against placebo.

The median time to onset of analgesia, to meaningful pain relief and to use of rescue medication was estimated using the Kaplan-Meier product limit method, and each active drug and dose were compared to placebo using the log-rank test. Patient global evaluation was summarized by treatment group and comparisons to placebo was performed using Cochran-Mantel-Haenszel tests, adjusting for the number of teeth removed. The proportion of patients requiring rescue medication in the first 6 hours was analyzed analogously. No adjustments for multiplicity were made in any of the secondary analyses.

In part C, patients were allocated to different doses using the optimization algorithm proposed by depending on the observations from parts A and B in order to maximize the dose-response information obtained in this part. Parts A, B and C were pooled for the estimation of dose-

response and the minimal effective dose.

Study Population: Inclusion/Exclusion Criteria and Demographics

This study was conducted in male and female (WONCBP) patients aged 18 – 45 years, in good health as determined by past medical history, physical examination, vital signs, electrocardiogram and laboratory tests at screening. The key main criteria for inclusion included extraction of two or more impacted third molars (at least one of the mandibular) with a moderate to severe post-surgical pain intensity. Key exclusion criteria included history of hypersensitivity to analgesics, use of antipyretic/analgesic drugs from 48 hrs pre-dose to 24 hrs post-dose, unless initiated by the Investigator, presence/ history of, or family history of malignant hyperthermia or anesthesia-related events, and abnormal ECG.

Participant Flow

Table 10-1 Subject disposition - n (%) of subjects

| Category | Placebo N=37 n (%) | SAF312 7.5 mg N=31 n (%) | SAF312 15 mg N=15 n (%) | SAF312 25 mg N=16 n (%) | SAF312 50 mg N=30 n (%) | SAF312 200 mg N=30 n (%) | SAF312 600 mg N=16 n (%) | Ibuprofen 400 mg N=28 n (%) |
|-----------------------------------|--------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|--------------------------------------|
| Completed | 35 (94.6) | 31 (100.0) | 14 (93.3) | 14 (87.5) | 29 (96.7) | 28 (93.3) | 16 (100.0) | 26 (92.9) |
| Discontinued from study | 2 (5.4) | 0 (0.0) | 1 (6.7) | 2 (12.5) | 1 (3.3) | 2 (6.7) | 0 (0.0) | 2 (7.1) |
| Primary reason for study | 2 (2, | | 1 (0) | - () | 1 (2.2) | 2 (0) | 0 (0.0) | -(, |
| discontinuation: | | | | | | | | |
| Adverse event(s) | 0(0.0) | 0(0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0(0.0) |
| Abnormal laboratory value(s) | 0(0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Abnormal test procedure result(s) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| Unsatisfactory therapeutic effect | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Subject's condition no longer | 0(0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0(0.0) |
| requires study drug | | | | | | | | |
| Subject withdrew consent | 0(0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0(0.0) |
| Lost to follow-up | 2 (5.4) | 0 (0.0) | 1 (6.7) | 2 (12.5) | 1 (3.3) | 2 (6.7) | 0(0.0) | 2 (7.1) |
| Administrative problems | 0(0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Death | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Protocol deviation | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |

Baseline Characteristics

Table 11-2 Baseline demographic characteristics

| Category | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 | Total N=203 |
|-------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|----------------|
| Age (years) | | | | | | | | | |
| n | 37 | 31 | 15 | 16 | 30 | 30 | 16 | 28 | 203 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (SD) | 19.4 (2.07) | 19.0 (1.52) | 18.7 (1.10) | 19.6 (1.90) | 20.0 (3.59) | 19.6 (2.55) | 19.5 (3.08) | 19.9 (3.24) | 19.5 (2.55) |
| Minimum | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 |
| Median | 19.0 | 18.0 | 18.0 | 19.0 | 18.0 | 18.0 | 18.0 | 19.0 | 18.0 |
| Maximum | 26 | 24 | 21 | 24 | 32 | 27 | 28 | 34 | 34 |
| Weight (kg) | | | | | | | | | |
| n | 37 | 31 | 15 | 16 | 30 | 30 | 16 | 28 | 203 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (SD) | 74.54 (9.099) | 74.86 (9.261) | 69.65 (9.573) | 70.88 (9.935) | 77.43 (9.813) | 76.12 (9.992) | 71.97 (7.356) | 75.94 (9.870) | 74.59 (9.57) |
| Minimum | 59.5 | 59.1 | 56.8 | 56.4 | 60.9 | 58.2 | 62.0 | 62.3 | 56.4 |
| Median | 72.70 | 72.30 | 65.00 | 70.40 | 76.40 | 76.40 | 72.05 | 73.65 | 73.60 |
| Maximum | 97.3 | 92.3 | 85.3 | 90.9 | 99.5 | 100.5 | 87.7 | 97.1 | 100.5 |
| Height (cm) | | | | | | | | | |
| n | 37 | 31 | 15 | 16 | 30 | 30 | 16 | 28 | 203 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (SD) | 177.7 (7.66) | 177.8 (6.40) | 171.1 (6.25) | 175.0 (4.93) | 179.3 (4.64) | 178.5 (6.82) | 178.4 (5.06) | 178.9 (8.61) | 177.6 (6.87) |
| Minimum | 166 | 167 | 162 | 168 | 171 | 165 | 173 | 165 | 162 |
| Median | 178.0 | 178.0 | 173.0 | 175.0 | 180.0 | 178.5 | 177.5 | 178.0 | 178.0 |
| Maximum | 200 | 193 | 180 | 183 | 189 | 196 | 188 | 196 | 200 |

| Category | Placebo N=37 | 5AF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 | Total N=203 |
|-------------------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|----------------|
| BMI (kg/m2) | | | | | | | | | |
| n | 37 | 31 | 15 | 16 | 30 | 30 | 16 | 28 | 203 |
| Missing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Mean (SD) | 23.61 (2.523) | 23.71 (2.853) | 23.79 (2.918) | 23.10 (2.692) | 24.05 (2.651) | 23.85 (2.499) | 22.64 (2.350) | 23.82 (3.345) | 23.65 (2.725) |
| Minimum | 19.1 | 18.7 | 20.5 | 19.7 | 20.0 | 18.0 | 19.7 | 18.5 | 18.0 |
| Median | 23.52 | 22.96 | 23.03 | 23.96 | 23.77 | 23.95 | 22.31 | 22.86 | 23.31 |
| Maximum | 29.2 | 29.7 | 29.2 | 27.1 | 30.3 | 29.4 | 28.1 | 30.3 | 30.3 |
| Sex, n (%) | | | | | | | | | |
| Male | 37 (100.0) | 31 (100.0) | 15 (100.0) | 16 (100.0) | 30 (100.0) | 30 (100.0) | 16 (100.0) | 28 (100.0) | 203 (100.0) |
| Female | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) |
| Predominant race, n (%) | | | | | | | | | |
| Caucasian | 33 (89.2) | 30 (96.8) | 13 (86.7) | 15 (93.8) | 28 (93.3) | 27 (90.0) | 16 (100.0) | 25 (89.3) | 187 (92.1) |
| Black | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 1 (3.3) | 0(0.0) | 2 (7.1) | 3 (1.5) |
| Asian | 2 (5.4) | 0(0.0) | 1 (6.7) | 0(0.0) | 0(0.0) | 1 (3.3) | 0(0.0) | 0(0.0) | 4 (2.0) |
| Native american | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 1 (3.3) | 0(0.0) | 0(0.0) | 1 (0.5) |
| Pacific islander | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 1 (3.3) | 0(0.0) | 0(0.0) | 0(0.0) | 1 (0.5) |
| Other | 2 (5.4) | 1(3.2) | 1 (6.7) | 1 (6.3) | 1 (3.3) | 0 (0.0) | 0(0.0) | 1 (3.6) | 7 (3.4) |

Note: $BMI \lceil kg/m2 \rceil = weight\lceil kg \rceil / (height\lceil m \rceil^{**}2)$

Table 11-2 Baseline demographic characteristics

| Category | Placebo N=37 | 5AF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 | Total N=203 |
|---------------------------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|----------------|
| Ethnicity, n (%) | | | | | | | | | |
| Hispanic/Latino | 5 (13.5) | 2 (6.5) | 2 (13.3) | 1 (6.3) | 1 (3.3) | 1 (3.3) | 0(0.0) | 1 (3.6) | 13 (6.4) |
| Chinese | 0 (0.0) | 0(0.0) | 0 (0.0) | 0(0.0) | 0(0.0) | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) |
| Indian (Indian subcontinent) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Japanese | 1(2.7) | 1 (3.2) | 1 (6.7) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 3 (1.5) |
| Mixed Ethnicity | 2 (5.4) | 3 (9.7) | 0 (0.0) | 1 (6.3) | 0(0.0) | 1 (3.3) | 0(0.0) | 1 (3.6) | 8 (3.9) |
| Other | 29 (78.4) | 25 (80.6) | 12 (80.0) | 14 (87.5) | 29 (96.7) | 28 (93.3) | 16 (100.0) | 26 (92.9) | 179 (88.2) |
| Pain intensity, n (%) | | | | | | | | | |
| None/absent/not present | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0(0.0) | 0 (0.0) |
| Mild | 0(0.0) | 0(0.0) | 0 (0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) | 0(0.0) |
| Moderate | 22 (59.5) | 15 (48.4) | 8 (53.3) | 4 (25.0) | 21 (70.0) | 24 (80.0) | 8 (50.0) | 17 (60.7) | 119 (58.6) |
| Severe | 15 (40.5) | 16 (51.6) | 7 (46.7) | 12 (75.0) | 9 (30.0) | 6 (20.0) | 8 (50.0) | 11 (39.3) | 84 (41.4) |

Note: BMI [kg/m2] = weight[kg]/(height[m]**2)

Outcome measures

Primary Outcome Results

Table 11-4 Summary of SPID(0-6)[1]

| | Placebo | SAF312 7.5 mg | SAF312 15 mg | SAF312 25 mg | SAF312 50 mg | SAF312 200 mg | SAF312 600 mg | Ibuprofen 400 mg |
|------------|--------------|------------------|-----------------|-----------------|-----------------|------------------|------------------|---------------------|
| Statistics | N=37 | N=31 | N=15 | N=16 | N=30 | N=30 | N=16 | N=28 |
| а | 37 | 31 | 15 | 16 | 30 | 30 | 16 | 28 |
| Mean (SD) | 0.23 (0.558) | 0.39 (0.717) | 0.72 (0.758) | 0.67 (0.690) | 0.56 (0.671) | 0.50 (0.522) | 0.76 (0.637) | 1.36 (0.729) |
| Minimum | -0.9 | -0.9 | -0.9 | 0.0 | -0.9 | -0.9 | 0.0 | 0.0 |
| Median | 0.00 | 0.10 | 0.81 | 0.65 | 0.71 | 0.59 | 0.85 | 1.34 |
| Maximum | 1.4 | 2.1 | 2.4 | 2.0 | 1.8 | 1.9 | 1.9 | 2.7 |
| 95% CI [2] | | (-0.152, 0.463) | (0.076, 0.837) | (-0.084, 0.674) | (0.057, 0.671) | (0.022, 0.637) | (0.109, 0.853) | (0.826, 1.448) |
| P-value[2] | | 0.319 | 0.019 | 0.127 | 0.020 | 0.036 | 0.011 | <0.001 |

For subjects that drop out or take the rescue medication (including Tylenol) after the first 90 minutes of treatment, the last observation was carried forward (LOCF).

⁽E)OCP).

[1] SPID(0-6): time-weighted sum of the PID (pain intensity difference)-categorical scores from 0 to 6 hours

[2] P-values for the difference to placebo are from ANCOVA model including treatment/dose and number of removed teeth as factors, and the baseline PI value as a covariate, comparing each treatment/dose against placebo. 95% confidence intervals are based on the least-squared differences from the ANCOVA between each treatment/dose and placebo.

| Dose levels | Mean of SPID(0-6) | Estimated response | S.E. | 90% CI |
|----------------|-------------------|--------------------|--------|----------------|
| 0 mg (Placebo) | 0.234 | 0.229 | 0.1052 | (0.056, 0.402) |
| 7.5 mg | 0.391 | 0.474 | 0.0978 | (0.313, 0.635) |
| 15 mg | 0.719 | 0.530 | 0.0703 | (0.415, 0.646) |
| 25 mg | 0.669 | 0.561 | 0.0573 | (0.467, 0.656) |
| 50 mg | 0.558 | 0.589 | 0.0596 | (0.491, 0.687) |
| 200 mg | 0.497 | 0.613 | 0.0773 | (0.486, 0.740) |
| 600 mg | 0.758 | 0.619 | 0.0834 | (0.482, 0.756) |

^{1.} Time-weighted sum of the PID (pain intensity difference)-categorical scores from 0 to 6 hours, SPID(0-6), was considered as response.

For subjects that drop out or take the rescue medication (including Tylenol) after the first 90 minutes of treatment, the last observation was carried forward (LOCF).

^{3.} The R package DoseFinding was used to obtain the estimated response of the selected model Emax.

Secondary Outcome Results

 $\textbf{PID based on categorical scale} / \textit{Summary of categorical time-specific pain intensity } \\ \textit{differences (PID)[1] at each time point }$

| Timepoint | Statistics | | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | 1buprofe 400 mg N=28 |
|---------------|---|------------|---|--|--|---|---|--|--|--|
| | Categorical -3 -2 -1 0 1 2 3 | | 0 (0.0) 0 (0.0) 0 (0.0) 36 (97.3) 1 (2.7) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.2) 27 (87.1) 3 (9.7) 0 (0.0) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 12 (80.0) 3 (20.0) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 13 (81.3) 3 (18.8) 0 (0.0) | 0 (0.0) 0 (0.0) 2 (6.7) 27 (90.0) 1 (3.3) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.3) 27 (90.0) 2 (6.7) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (6.3) 15 (93.8) 0 (0.0) 0 (0.0) | 0 (0. 0 (0. 27 (96. 1 (3. 0 (0. |
| | P-value [2] | | | 0.446 | 0.029 | 0.067 | 0.322 | 0.438 | 0.252 | 0.855 |
| TP/0.5hr | Categorical -3 -2 -1 0 1 2 | PID, n(%) | 0 (0.0) 0 (0.0) 2 (5.4) 31 (83.8) 4 (10.8) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.2) 26 (83.9) 3 (9.7) 1 (3.2) 0 (0.0) | 0 (0.0) 0 (0.0) 10 (66.7) 5 (33.3) 0 (0.0) | 0 (0.0) 0 (0.0) 10 (62.5) 6 (37.5) 0 (0.0) | 0 (0.0) 3 (10.0) 20 (66.7) 5 (16.7) 2 (6.7) | 0 (0.0) 1 (3.3) 20 (66.7) 8 (26.7) 1 (3.3) | 0 (0.0) 1 (6.3) 9 (56.3) 4 (25.0) 2 (12.5) | 0 (0. 0 (0. 20 (71. 8 (28. 0 (0. |
| | P-value [2] | | | 0.650 | 0.097 | 0.087 | 0.355 | 0.236 | 0.066 | 0.110 |
| Timepoint. | Statistica | | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofe 400 mg N=28 |
| | Categorical _3 _2 _1 0 1 2 | , 11(8) | 0 (0.0) 0 (0.0) 2 (5.4) 30 (81.1) 5 (13.5) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.2) 21 (67.7) 8 (25.8) 1 (3.2) 0 (0.0) | 0 (0.0) 0 (0.0) 9 (60.0) 5 (33.3) 0 (0.0) | 0 (0.0) 0 (0.0) 10 (62.5) 6 (37.5) 0 (0.0) | 0 (0.0) 2 (6.7) 15 (50.0) 10 (33.3) 3 (10.0) | 0 (0.0) 1 (3.3) 16 (53.3) 12 (40.0) 1 (3.3) | 0 (0.0) 0 (0.0) 7 (43.8) 6 (37.5) 3 (18.8) | 0 (0. 0 (0. 10 (35. 12 (42. 5 (17. |
| | P-value [2] | | | 0.509 | 0.087 | 0.148 | 0.053 | 0.059 | 0.004 | <0.00 |
| TP/1hr | Categorical -3 -2 -1 0 1 2 | | 0 (0.0) 0 (0.0) 3 (8.1) 27 (73.0) 7 (18.9) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.2) 19 (61.3) 9 (29.0) 2 (6.5) 0 (0.0) | 0 (0.0) 1 (6.7) 5 (33.3) 8 (53.3) 0 (0.0) | 0 (0.0) 0 (0.0) 10 (62.5) 4 (25.0) 2 (12.5) | 0 (0.0) 2 (6.7) 16 (53.3) 9 (30.0) 3 (10.0) | 0 (0.0) 1 (3.3) 14 (46.7) 13 (43.3) 2 (6.7) | 0 (0.0) 0 (0.0) 4 (25.0) 10 (62.5) 2 (12.5) | 0 (0 0 (0 6 (21 15 (53 6 (21 |
| | P-value [2] | | | 0.337 | 0.020 | 0.197 | 0.148 | 0.051 | <0.001 | <0.00 |
| Timepoint | Statistics | | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofe 400 mg N=28 |
| | Categorical -3 -2 -1 0 1 2 | | 0 (0.0) 0 (0.0) 3 (8.1) 27 (73.0) 7 (18.9) 0 (0.0) | 0 (0.0) 0 (0.0) 2 (6.7) 18 (60.0) 9 (30.0) 1 (3.3) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (6.7) 3 (20.0) 9 (60.0) 1 (6.7) 1 (6.7) | 0 (0.0) 0 (0.0) 0 (0.0) 9 (56.3) 3 (18.8) 4 (25.0) 0 (0.0) | 0 (0.0) 0 (0.0) 2 (6.7) 11 (36.7) 13 (43.3) 4 (13.3) 0 (0.0) | 0 (0.0) 0 (0.0) 1 (3.3) 11 (36.7) 17 (56.7) 1 (3.3) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 5 (31.3) 8 (50.0) 3 (18.8) 0 (0.0) | 0 (0. 0 (0. 0 (0. 2 (7. 14 (50. 7 (25. 5 (17. |
| TD (0) | P-value [2] | DTD - (8.) | | 0.595 | 0.003 | 0.035 | 0.008 | 0.010 | 0.002 | <0.001 |
| TP/2hr | Categorical -3 -2 -1 0 1 2 | rin' Ψ(*) | 0 (0.0) 0 (0.0) 3 (8.1) 24 (64.9) 9 (24.3) 1 (2.7) | 0 (0.0) 0 (0.0) 2 (6.5) 19 (61.3) 6 (19.4) 4 (12.9) 0 (0.0) | 0 (0.0) 1 (6.7) 3 (20.0) 8 (53.3) 2 (13.3) | 0 (0.0) 0 (0.0) 7 (43.8) 4 (25.0) 5 (31.3) | 0 (0.0) 3 (10.0) 9 (30.0) 16 (53.3) 2 (6.7) | 0 (0.0) 1 (3.3) 13 (43.3) 14 (46.7) | 0 (0.0) 0 (0.0) 5 (31.3) 8 (50.0) 3 (18.8) | 0 (0. 0 (0. 1 (3. 12 (42. 11 (39. |
| | 3 | | 0 (0.0) | - (/ | | | | | | |

| Timepoint | .Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|-----------|---|--|--|---|---|--|---|---|---|
| TP/3hr | | 0 (0.0) 0 (0.0) 3 (8.1) 25 (67.6) 8 (21.6) 1 (2.7) | 0 (0.0) 0 (0.0) 2 (6.5) 18 (58.1) 8 (25.8) 2 (6.5) 1 (3.2) | 0 (0.0) 0 (0.0) 1 (6.7) 3 (20.0) 9 (60.0) 2 (13.3) | 0 (0.0) 0 (0.0) 0 (0.0) 8 (50.0) 5 (31.3) 3 (18.8) | 0 (0.0) 0 (0.0) 2 (6.7) 10 (33.3) 14 (46.7) 4 (13.3) | 0 (0.0) 0 (0.0) 1 (3.3) 14 (46.7) 14 (46.7) 1 (3.3) | 0 (0.0) 0 (0.0) 0 (0.0) 6 (37.5) 7 (43.8) 3 (18.8) | 0 (0.0) 0 (0.0) 0 (0.0) 3 (10.7) 8 (28.6) 13 (46.4) |
| | P-value [2] | | 0.663 | 0.011 | 0.211 | 0.014 | 0.209 | 0.045 | <0.001 |
| TP/4hr | Categorical PID, n(\$) -3 -2 -1 0 1 2 3 P-value [2] | 0 (0.0) 0 (0.0) 3 (8.1) 21 (56.8) 10 (27.0) 3 (8.1) 0 (0.0) | 0 (0.0) 0 (0.0) 3 (9.7) 15 (48.4) 9 (29.0) 3 (9.7) 1 (3.2) 0.805 | 0 (0.0) 1 (6.7) 5 (33.3) 7 (46.7) 2 (13.3) 0 (0.0) | 0 (0.0) 0 (0.0) 7 (43.8) 6 (37.5) 3 (18.8) 0 (0.0) | 0 (0.0) 2 (6.7) 10 (33.3) 15 (50.0) 3 (10.0) 0 (0.0) | 0 (0.0) 2 (6.7) 13 (43.3) 14 (46.7) 1 (3.3) 0 (0.0) | 0 (0.0) 0 (0.0) 6 (40.0) 6 (40.0) 3 (20.0) 0 (0.0) | 0 (0.0) 0 (0.0) 3 (10.7) 10 (35.7) 11 (39.3) 4 (14.3) |
| | Statistics | Placebo | SAF312 7.5 mg | SAF312 15 mg | SAF312 25 mg | SAF312 50 mg | SAF312 200 mg | SAF312 600 mg | Ibuprofen 400 mg |
| Timepoint | Statistics | N=37 | N=31 | N=15 | N=16 | N=30 | N=3.0 | N=16 | N=28 |
| TP/5hr | Categorical PID, n(%) -3 -2 -1 0 1 2 3 | 0 (0.0) 0 (0.0) 3 (8.1) 21 (56.8) 9 (24.3) 4 (10.8) | 0 (0.0) 0 (0.0) 3 (9.7) 16 (51.6) 7 (22.6) 4 (12.9) 1 (3.2) | 0 (0.0) 0 (0.0) 1 (6.7) 4 (26.7) 8 (53.3) 1 (6.7) | 0 (0.0) 0 (0.0) 0 (0.0) 8 (50.0) 4 (25.0) 3 (18.8) | 0 (0.0) 0 (0.0) 2 (6.7) 10 (33.3) 15 (50.0) 2 (6.7) | 0 (0.0) 0 (0.0) 2 (6.9) 10 (34.5) 15 (51.7) 2 (6.9) | 0 (0.0) 0 (0.0) 0 (0.0) 6 (37.5) 7 (43.8) 3 (18.8) | 0 (0.0) 0 (0.0) 0 (0.0) 5 (17.9) 8 (28.6) 10 (35.7) |
| | P-value [2] | | 0.773 | 0.112 | 0.601 | 0.266 | 0.157 | 0.281 | <0.001 |
| TP/6hr | Categorical PID, p.(%) -3 -2 -1 0 1 2 3 | 0 (0.0) 0 (0.0) 3 (8.1) 21 (56.8) 9 (24.3) 4 (10.8) | 0 (0.0) 0 (0.0) 3 (9.7) 17 (54.8) 5 (16.1) 5 (16.1) 1 (3.2) | 0 (0.0) 1 (6.7) 4 (26.7) 7 (46.7) 3 (20.0) | 0 (0.0) 0 (0.0) 9 (56.3) 4 (25.0) 2 (12.5) | 0 (0.0) 2 (6.7) 11 (36.7) 14 (46.7) 2 (6.7) | 0 (0.0) 2 (6.7) 10 (33.3) 16 (53.3) 2 (6.7) | 0 (0.0) 0 (0.0) 6 (40.0) 6 (40.0) 3 (20.0) | 0 (0.0) 0 (0.0) 7 (25.0) 8 (28.6) 8 (28.6) |
| | P-value [2] | | 0.504 | 0.238 | 0.692 | 0.382 | 0.119 | 0.366 | 0.004 |
| Timepoint | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
| | Categorical PID, p.(%) -3 -2 -1 0 1 2 3 | 0 (0.0) 0 (0.0) 3 (8.1) 20 (54.1) 10 (27.0) 4 (10.8) | 0 (0.0) 0 (0.0) 3 (9.7) 16 (51.6) 6 (19.4) 5 (16.1) 1 (3.2) | 0 (0.0) 0 (0.0) 1 (6.7) 4 (26.7) 8 (53.3) 2 (13.3) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 9 (56.3) 4 (25.0) 3 (18.8) 0 (0.0) | 0 (0.0) 0 (0.0) 2 (6.7) 9 (30.0) 15 (50.0) 3 (10.0) 1 (3.3) | 0 (0.0) 0 (0.0) 2 (6.7) 10 (33.3) 15 (50.0) 3 (10.0) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 6 (37.5) 7 (43.8) 3 (18.8) 0 (0.0) | 0 (0.0) 0 (0.0) 0 (0.0) 7 (25.0) 10 (35.7) 5 (17.9) 6 (21.4) |
| | P-value [2] | | 0.564 | 0.275 | 0.700 | 0.315 | 0.289 | 0.356 | 0.007 |
| TP/10hr | Categorical PID, n.(%) -3 -2 -1 0 1 2 3 | 0 (0.0) 3 (8.1) 21 (56.8) 10 (27.0) 2 (5.4) | 0 (0.0) 0 (0.0) 3 (9.7) 16 (51.6) 6 (19.4) 5 (16.1) 1 (3.2) | 0 (0.0) 1 (6.7) 5 (33.3) 7 (46.7) 2 (13.3) | 0 (0.0) 0 (0.0) 9 (56.3) 3 (18.8) 3 (18.8) | 0 (0.0) 2 (6.7) 11 (36.7) 12 (40.0) 4 (13.3) | 0 (0.0) 2 (6.7) 11 (36.7) 14 (46.7) | 0 (0.0) 0 (0.0) 7 (43.8) 6 (37.5) 2 (12.5) | 0 (0.0) 0 (0.0) 11 (39.3) 9 (32.1) 4 (14.3) |
| | P-value [2] | | 0.540 | 0.287 | 0.422 | 0.440 | 0.322 | 0.565 | 0.092 |
| | | | | | | | | | |

| Timepoint Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|------------------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|
| TP/12hr Categorical PI | D, n(%) | | | | | | | |
| -3 | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| -2 | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| -1 | 3 (8.1) | 3 (9.7) | 1 (6.7) | 0 (0.0) | 2 (6.7) | 2 (6.7) | 0 (0.0) | 0 (0.0) |
| 0 | 22 (59.5) | 17 (54.8) | 4 (26.7) | 9 (56.3) | 10 (33.3) | 11 (36.7) | 6 (37.5) | 12 (42.9) |
| 1 | 9 (24.3) | 5 (16.1) | 8 (53.3) | 4 (25.0) | 12 (40.0) | 13 (43.3) | 7 (43.8) | 8 (28.6) |
| 2 | 2 (5.4) | 5 (16.1) | 2 (13.3) | 2 (12.5) | 5 (16.7) | 4 (13.3) | 2 (12.5) | 4 (14.3) |
| 3 | 1 (2.7) | 1 (3.2) | 0 (0.0) | 1 (6.3) | 1 (3.3) | 0 (0.0) | 1 (6.3) | 4 (14.3) |
| P-value [2] | | 0.544 | 0.149 | 0.716 | 0.216 | 0.228 | 0.337 | 0.098 |

PID based on the visual analog scale

| Timepoint | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 |
|-----------|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| TP/0.25hr | n Mean (SD) Minimum Median Maximum | 37 -0.1 (6.12) -21 0.0 12 | 31 1.3 (8.13) -15 -1.0 28 | 15 5.4 (8.80) -2 2.0 32 | 16 3.0 (10.05) -11 1.0 33 |
| | 95% CI [2] P-value [2] | | (-2.08, 5.18) 0.401 | (1.10, 10.06) 0.015 | (-1.54, 7.31) 0.201 |
| TP/0.5hr | n Mean (SD) Minimum Median Maximum | 37 3.0 (14.43) -23 1.0 45 | 31 3.0 (12.56) -18 1.0 44 | 15 8.8 (14.17) -10 8.0 49 | 16 7.1 (13.07) -8 2.0 40 |
| | 95% CI [2] P-value [2] | | (-7.04, 8.59) 0.846 | (-3.72, 15.58) 0.227 | (-6.10, 12.96) 0.479 |

Note: For subjects that drop out or take the rescue medication (including Tylenol) after the first 90 minutes of

- treatment, the last observation was carried forward (LOCF).

 [1] VAS pain intensity (PI) scale: 0-100 (No pain Worst imaginable pain). PID at a certain time point is defined as the PI at predogs minus the PI at this timepoint.

 [2] P-values for the difference to placebo are from ANCOVA model including treatment/dose and number of removed teeth as factors, and the baseline PI value as a covariate, comparing each treatment/dose against placebo. 95% confidence intervals are based on the least-squared differences from the ANCOVA between each treatment/dose and placebo.

| Timepoint | Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|-----------|--|---------------------------------------|--|-----------------------------------|--------------------------------------|
| TP/0.25hr | n | 30 | 30 | 16 | 28 |
| | Mean (SD) | -0.2 (7.19) | 0.5 (8.84) | -1.1 (5.48) | 0.6 (4.42) |
| | Minimum | -21 | -20 | -12 | -8 |
| | Median | 0.0 | 2.0 | -1.0 | 1.0 |
| | Maximum | 21 | 29 | 10 | 12 |
| | 95% CI [2] | (-3.69, 3.52) | (-2.86, 4.37) | (-5.45, 3.31) | (-2.97, 4.36) |
| | P-value [2] | 0.963 | 0.681 | 0.630 | 0.709 |
| TP/0.5hr | n Mean (SD) Minimum Median Maximum | 30 9.4 (19.71) -21 5.5 70 | 3.0 9.5 (17.42) -17 5.0 58 | 16.1 (25.31) -10 13.5 80 | 28 7.4 (10.01) -7 4.5 28 |
| | 95% CI [2] | (-1.34, 14.20) | (-1.03, 14.53) | (3.51, 22.37) | (-3.40, 12.39) |
| | P-value [2] | 0.104 | 0.089 | 0.007 | 0.263 |

| | | Placebo | SAF312 7.5 mg | SAF312 15 mg | SAF312 25 mg |
|------------------------------------|---|---|--|--|--|
| Timepoint | Statistics | N=37 | SAF312 7.5 mg N=31 | N=15 | |
| TP/0.75hr | n Mean (SD) | 37 3.9 (16.58) | 31 9.8 (16.40) | 15 18.6 (22.00) | 16 9.9 (16.38) |
| | Minimum Median | -23 1.0 | -15 6.0 | -4 15.0 | -13 5.5 |
| | Maximum | 51 | 65 | 75 | 48 |
| | 95% CI [2] P-value [2] | | (-3.36, 15.92) 0.201 | (2.97, 26.79) 0.015 | (-6.58, 16.95) 0.386 |
| TP/1hr | n Mean (SD) | 37 5.4 (19.79) | 31 13.1 (19.58) | 15 19.9 (21.41) | 16 17.1 (25.45) |
| | Minimum | -28 1.0 | -15 | -14 20.0 | -11 |
| | Median Maximum | 71 | 9.0 70 | 75 | 8.5 67 |
| | 95% CI [2] P-value [2] | | (-2.28, 19.13) 0.122 | (1.31, 27.75) 0.031 | (-2.43, 23.69) 0.110 |
| | | | | | |
| [imepoint | Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 m N=28 |
| TP/0.75hr | n Mean (SD) | 30 15.6 (21.32) | 30 | 16 | 28 29.6 (22.74) |
| | Minimum | -23 | -24 | 24.2 (25.27) -11 | -2 |
| | Median Maximum | 13.5 69 | 12.5 58 | 22.0 89 | 26.0 90 |
| | 95% CI [2] P-value [2] | (2.14, 21.32) 0.017 | (1.77, 20.98) 0.020 | (8.43, 31.70) <0.001 | (15.90, 35.38) <0.001 |
| TP/1hr | n Mann (SD) | 30 | 30 | 16 | 28 |
| | Mean (SD) Minimum | -24 | 18.2 (20.49) -22 | 0 | Q |
| | Median Maximum | 16.5 57 | 14.0 66 | 28.0 90 | 39.5 91 |
| | 95% CI [2] | (3.38, 24.68) | (2.31, 23.63) | (10.77, 36.61) | (24.47, 46.11) |
| | P-value [2] | 0.010 | 0.017 | <0.001 | <0.001 |
| | | Placebo | SAF312 7.5 mg N=31 | SAF312 15 mg | SAF312 25 mg |
| | 0 | N 27 | NT 21 | NT_1 E | N-16 |
| | Statistics | N=37 | N=2T | N=13 | |
| | n | 37 | 30 | 15 | 16 |
| | n Mean (SD) Minimum | 37 7.9 (21.70) -28 | 30 10.9 (17.99) -15 | 15 24.3 (21.95) -15 | 16 23.1 (30.81) -14 |
| | n Mean (SD) | 37 7.9 (21.70) | 30 10.9 (17.99) | 15 24.3 (21.95) | 16 23.1 (30.81) |
| TP/1.5hr | n Mean (SD) Minimum Median | 7.9 (21.70) -28 2.0 | 30 10.9 (17.99) -15 9.5 | 15 24.3 (21.95) -15 27.0 | 16 23.1 (30.81) -14 10.0 85 |
| TP/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] | 37 7.9 (21.70) -28 2.0 76 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 |
| P/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] | 37 7.9 (21.70) -28 2.0 76 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 |
| P/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) |
| TP/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 |
| P/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 |
| TP/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m(|
| TP/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=30. | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m(N=28 |
| TP/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg %3.0 22.2 (20.70) -19 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m(N=28 53.5 (26.446) -3 |
| P/1.5hr P/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum Median Maximum | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) -24 22.0 58 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=3.0 22.2 (20.70) -19 25.5 5.8 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 30.5 86 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 mm N=28 28 53.5 (26.46) -3 60.0 99 |
| P/1.5hr P/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum Median Maximum | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) -24 22.0 58 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=30 22.2 (20.70) -19 25.5 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 30.5 86 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 mm N=28 28 53.5 (26.46) -3 60.0 99 |
| TP/2hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) -24 22.0 58 (5.23, 28.00) 0.004 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=30 22.2 (20.70) -19 25.5 58 (2.88, 25.69) 0.014 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 30.5 86 (8.88, 36.51) 0.001 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m(N=28 28 53.5 (26.46) -3 60.0 99 (34.38, 57.52) <0.001 |
| P/1.5hr P/2hr Cimepoint P/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median (SD) Minimum | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) -24 22.0 58 (5.23, 28.00) 0.004 30 24.0 (28.08) -24 | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=3.0 22.2 (20.70) -19 25.5 5.8 (2.88, 25.69) 0.014 30 21.1 (23.64) -20 | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 30.5 86 (8.88, 36.51) 0.001 16 29.1 (25.05) -10 | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m N=28 53.5 (26.46) -3 60.0 99 (34.38, 57.52) <0.001 28 59.3 (23.31) -8 |
| TP/1.5hr TP/2hr Timepoint TP/1.5hr | n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] Statistics n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] The statistics n Mean (SD) Minimum Median Maximum 95% CI [2] P-value [2] n Mean (SD) | 37 7.9 (21.70) -28 2.0 76 37 10.1 (22.93) -28 5.0 81 SAF312 50 mg N=30 24.0 (23.97) -24 22.0 58 (5.23, 28.00) 0.004 30 24.0 (28.08) | 30 10.9 (17.99) -15 9.5 60 (-7.09, 16.06) 0.446 31 14.6 (23.88) -16 6.0 66 (-6.55, 17.94) 0.360 SAF312 200 mg N=30. 30 22.2 (20.70) -19 25.5 58 (2.88, 25.69) 0.014 30 21.1 (23.64) | 15 24.3 (21.95) -15 27.0 74 (1.99, 30.27) 0.026 15 27.9 (25.03) -15 32.0 76 (2.45, 32.69) 0.023 SAF312 600 mg N=16 16 31.1 (27.54) -8 30.5 86 (8.88, 36.51) 0.001 16 29.1 (25.05) | 16 23.1 (30.81) -14 10.0 85 (-0.20, 27.74) 0.053 16 26.8 (30.92) -19 20.0 83 (0.08, 29.96) 0.049 Ibuprofen 400 m(N=28 28 53.5 (26.46) -3 60.0 99 (34.38, 57.52) <0.001 28 59.3 (23.31) |

| Timepoint | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 |
|-----------|--|---|---|---|---|
| TP/3hr | n Mean (SD) Minimum Median | 37 10.1 (23.66) -28 5.0 | 31 16.6 (26.08) -14 6.0 | 15 24.1 (22.02) -15 27.0 | 16 22.7 (27.50) -19 17.0 |
| | Maximum | 69 | 81 | 68 | 85 |
| | 95% CI [2] P-value [2] | | (-5.04, 19.60) 0.245 | (-1.21, 29.22) 0.071 | (-4.56, 25.50) 0.171 |
| TP/4hr | n Mean (SD) Minimum Median Maximum | 37 12.7 (26.42) -28 5.0 73 | 31 17.7 (28.75) -30 6.0 81 | 15 21.7 (21.81) -15 20.0 58 | 16 22.8 (28.11) -19 17.5 85 |
| | 95% CI [2] P-value [2] | | (-7.33, 18.90) 0.385 | (-6.98, 25.39) 0.263 | (-7.72, 24.27) 0.309 |
| Timepoint | Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 m N=28 |
| TP/3hr | n Mean (SD) Minimum Median | 30 | 30 19.3 (25.89) -20 23.5 | 16 28.7 (24.90) -10 27.5 | 28 58.1 (24.71) -23 61.0 |
| | Maximum | 67 | 68 | 72 | 100 |
| TD / 41 | P-value [2] | 0.008 | 0.116 | (3.10, 32.84) 0.018 | <0.001 |
| TP/4hr | n Mean (SD) Minimum Median Maximum | 30 24.6 (26.91) -24 26.0 68 | 30 18.5 (27.45) -31 24.5 71 | 15 28.3 (26.00) -10 29.0 73 | 28 54.9 (27.00) -23 56.5 99 |
| | 95% CI [2] P-value [2] | (-0.97, 25.11) 0.069 | (-6.70, 19.42) 0.338 | (-1.20, 31.19) 0.069 | (28.96, 55.46) <0.001 |
| | | | | SAF312 15 mg N=15 | |
| | | 37 | 31 | 15 26.0 (24.91) | 16 |
| | Minimum Median Maximum | -28 5.0 76 | -29 7.0 81 | -15 24.0 74 | -19 12.0 95 |
| | 95% CI [2] P-value [2] | | (-8.73, 19.76) 0.446 | (-6.41, 28.76) 0.212 | (-11.79, 22.96) 0.527 |
| TP/6hr | Minimum Median | -28 5.0 | -29 6.0 | 15 25.1 (23.37) -15 31.0 | -19 7.0 |
| | Maximum 95% CI [2] P-value [2] | 78 | 82 (-10.37, 18.76) 0.571 | 65 (-7.87, 28.10) 0.269 | 94 (-12.38, 23.15) 0.551 |
| imepoint | Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=3.0 | SAF312 600 mg N=16 | Ibuprofen 400 m |
| | n Mean (SD) Minimum Median Maximum | 30 | 2.9 | 16 30.1 (27.02) -10 31.5 74 | 2.8 |
| | 95% CI [2] P-value [2] | (-3.27, 25.06) 0.131 | (-7.70, 20.93) 0.363 | (-2.72, 31.65) 0.099 | (25.03, 53.81) <0.001 |
| P/6hr | n Mean (SD) Minimum Median Maximum | 30 25.6 (28.49) -24 25.0 83 | 30 22.3 (30.31) -31 26.0 75 | 15 30.3 (27.21) -10 41.0 71 | 28 49.6 (32.84) -23 55.0 99 |
| | | | | (-3.36, 32.61) 0.110 | /10 75 40 10 |

| Timepoint | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 |
|-----------|--|---|---|---|---|
| TP/8hr | n Mean (SD) Minimum Median | 37 17.3 (31.52) -28 5.0 | -29 | 15 27.1 (24.74) -15 | -19 |
| | Maximum | 84 | 5.0 79 | 36.0 67 | 6.5 75 |
| | 95% CI [2] P-value [2] | | (-13.77, 16.20) 0.873 | (-8.38, 28.62) 0.282 | (-17.71, 18.85) 0.951 |
| TP/10hr | n Mean (SD) Minimum Median | 37 16.2 (30.79) -28 5.0 | 31 20.1 (31.06) -29 6.0 | 15 26.1 (24.68) -15 21.0 | 16 20.5 (30.63) -19 8.0 |
| | Maximum | 81 | 77 | 63 | 94 |
| | 95% CI [2] P-value [2] | | 0.527 | (-8.90, 28.88) 0.298 | 0.713 |
| Timepoint | Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=3.0 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
| TP/8hr | n Mean (SD) | 30 | 3.0 | 16 | 28 |
| | Minimum Median Maximum | -24 31.5 83 | 21.8 (30.61) -31 24.5 73 | -10 30.5 70 | -23 51.0 99 |
| | 95% CI [2] P-value [2] | (-3.42, 26.38) 0.130 | (-9.65, 20.20) 0.487 | (-4.83, 31.33) 0.150 | (12.75, 43.03) <0.001 |
| TP/10hr | n Mean (SD) | 30 28.8 (31.08) | 21.8 (31.67) | 16 31.3 (28.50) | |
| | Minimum Median Maximum | -24 27.0 83 | -31 24.5 75 | -10 31.5 82 | -25 34.0 99 |
| | 95% CI [2] P-value [2] | (-2.66, 27.77) 0.105 | (-9.51, 20.96) 0.460 | (-3.61, 33.31) 0.114 | (2.02, 32.94) 0.027 |
| | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 |
| TP/12hr | n Mean (SD) | 37 16.1 (31.12) | 31 19.3 (31.95) | 15 27.3 (24.94) | 16 19.4 (29.94) |
| | Minimum Median Maximum | -28 5.0 80 | -29 6.0 80 | 27.3 (24.94) -15 32.0 69 | -19 8.0 95 |
| | 95% CI [2] P-value [2] | 50 | | (-7.93, 30.17) 0.251 | |
| TP/24hr | n Mean (SD) | 37 17.6 (33.54) | 31 19.4 (32.96) | 15 32.1 (30.25) | 16 20.9 (31.81) |
| | Minimum Median Maximum | -28 3.0 83 | -29 5.0 81 | -15 34.0 78 | -19 8.0 94 |
| | 95% CI [2] P-value [2] | | (-12.61, 20.79) 0.630 | (-6.32, 34.92) 0.173 | (-18.07, 22.68) 0.824 |
| | | | SAF312 200 mg N=30 | | |
| | | 30 | 30 | 16 | 28 |
| | Mean (SD) Minimum Median Maximum | 30.4 (31.79) -24 33.5 83 | 22.3 (31.88) -31 24.5 71 | 33.8 (29.85) -10 38.0 82 | 30.6 (34.98) -25 34.0 99 |
| | | | (-9.15, 21.58) 0.426 | | |
| TP/24hr | n Mean (SD) Minimum Median Maximum | 30 32.2 (32.98) -24 36.5 83 | 30 25.0 (35.24) -31 24.5 84 | 16 42.1 (32.95) -10 54.0 82 | 28 29.6 (39.50) -27 26.0 99 |
| | 95% CI [2] | (-1.83, 31.39) | (-9.64, 23.63) 0.408 | (3.90, 44.21) | (-4.48, 29.28) |

| Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|--|---|-------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------|--|--|
| | 4 (.10.8) 1 (2.7) 0 (0.0) | 5 (16.1) 0 (0.0) 0 (0.0) | 7 (46.7) 0 (0.0) 0 (0.0) | 3 (18.8) 1 (6.3) 0 (0.0) | 3 (10.0) 0 (0.0) 0 (0.0) | 4 (13.3) 0 (0.0) 0 (0.0) | 1 (6.3) 0 (0.0) 0 (0.0) | 3 (10.7) 0 (0.0) 0 (0.0) |
| P-value [1] | *************************************** | 0.640 | 0.010 | 0.593 | 0.619 | 0.646 | 0.706 | 0.676 |
| Categorical PR scale, n(%) None A little Moderate A lot Complete | 26 (70.3) 8 (21.6) 3 (8.1) 0 (0.0) 0 (0.0) | 9 (29.0) 2 (6.5) 0 (0.0) | 5 (33.3) 2 (13.3) 1 (6.7) | 7 (43.8) 0 (0.0) 1 (6.3) | 10 (33.3) 1 (3.3) 2 (6.7) | 13 (43.3) 3 (10.0) 0 (0.0) | 7 (43.8) 2 (12.5) 1 (6.3) | 15 (53.6 1 (3.6 0 (0.0 |
| P-value [1] | | 0.815 | 0.205 | 0.176 | 0.280 | 0.143 | 0.079 | 0.033 |
| Statistica | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofe 400 mg N=28 |
| Categorical PR scale, n(%) None A little Moderate A lot Complete | | 11 (35.5) 6 (19.4) 0 (0.0) | 5 (33.3) 2 (13.3) 1 (6.7) | 6 (37.5) 0 (0.0) 1 (6.3) | 9 (30.0) 7 (23.3) 3 (10.0) | 14 (46.7) 5 (16.7) 2 (6.7) | 6 (37.5) 5 (31.3) 2 (12.5) | 10 (35. 11 (39. 5 (17. |
| P-value [1] | | 0.187 | 0.293 | 0.717 | 0.143 | 0.057 | 0.008 | <0.001 |
| Categorical PR scale, n(%) None A little Moderate A lot Complete | 13 (35.1) 2 (5.4) 2 (5.4) | 14 (45.2) 3 (9.7) 3 (9.7) | 5 (33.3) 4 (26.7) 1 (6.7) | 3 (18.8) 4 (25.0) 1 (6.3) | 11 (36.7) 7 (23.3) 3 (10.0) | 12 (40.0) 7 (23.3) 3 (10.0) | 7 (43.8) 4 (25.0) 4 (25.0) | 6 (21. 7 (25. 13 (46. |
| P-value [1] | | 0.435 | 0.055 | 0.237 | 0.055 | 0.027 | 0.003 | <0.001 |
| Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofer 400 mg N=28 |
| Categorical PR scale, n(%) None A little Moderate A lot Complete | 12 (32.4) 3 (8.1) | 14 (46.7) 4 (13.3) 1 (3.3) | 2 (13.3) 6 (40.0) 2 (13.3) | 2 (12.5) 2 (12.5) 3 (18.8) | 6 (20.0) 11 (36.7) 4 (13.3) | 9 (30.0) 9 (30.0) 5 (16.7) | 4 (25.0) 3 (18.8) 4 (25.0) 5 (31.3) 0 (0.0) | 1 (3.0 3 (10.7 5 (17.5 11 (39.3 8 (28.0 |
| P-value [1] | | 0.265 | 0.013 | 0.317 | 0.012 | 0.021 | 0.011 | <0.001 |
| PR scale, n(%) None A little Moderate A lot Complete | 16 (43.2) 13 (35.1) 6 (16.2) 1 (2.7) 1 (2.7) | 9 (29.0) 4 (12.9) 4 (12.9) | 2 (13.3) 5 (33.3) 3 (20.0) | 3 (18.8) 3 (18.8) 3 (18.8) | 3 (10.0) 8 (26.7) 9 (30.0) | 9 (30.0) 9 (30.0) 4 (13.3) | | 1 (3.0 0 (0.0 6 (21.0 11 (39.0 10 (35.0 |
| P-value [1] | | 0.539 | 0.076 | 0.376 | 0.006 | 0.273 | 0.053 | <0.001 |
| | None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Statistics Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Statistics Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Complete P-value [1] Categorical PR scale, n(%) None A little Moderate A lot Lot Moderate A lot Lot Moderate A lot L | Statistics | Statistics | Statistics | Statistics | Statistics | Categorical Property Categorical Property | Categorical Francisco |

| Timepoint. | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|------------|--|--|---|--|---|---|---|--|--|
| TP/3hr | Categorical PR scale, n(%) None A little Moderate A lot Complete | 19 (51.4) 13 (35.1) 1 (2.7) 4 (10.8) | 7 (22.6) 6 (19.4) 3 (9.7) | 3 (20.0) 2 (13.3) 5 (33.3) | 4 (25.0) 3 (18.8) 3 (18.8) | 6 (20.0) 7 (23.3) 8 (26.7) | 9 (30.0) 7 (23.3) 8 (26.7) 5 (16.7) 1 (3.3) | 3 (18.8) 6 (37.5) 3 (18.8) | 1 (3.6) 3 (10.7) 13 (46.4) |
| | P-value [1] | | 0.187 | 0.101 | 0.170 | 0.012 | 0.035 | 0.006 | <0.001 |
| TP/4hr | Categorical PR scale, n(%) None A little Moderate A lot Complete | 18 (48.6) 8 (21.6) 5 (13.5) | 7 (22.6) 6 (19.4) | 3 (20.0) | 3 (18.8) 5 (31.3) | 6 (20.0) 7 (23.3) | 4 (13.3) 10 (33.3) | 5 (33.3) | 2 (7.1) 5 (17.9) |
| | P-value [1] | | 0.817 | 0.898 | 0.500 | 0.258 | 0.252 | 0.497 | <0.001 |
| | Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
| TP/5hr | Categorical PR scale, n(%) None A little Moderate A lot | 18 (48.6) 6 (16.2) 6 (16.2) 7 (18.9) | 14 (45.2) 7 (22.6) 4 (12.9) 5 (16.1) | 5 (33.3) 2 (13.3) 4 (26.7) 3 (20.0) | 7 (43.8) 2 (12.5) 4 (25.0) 1 (6.3) | 8 (26.7) 6 (20.0) 7 (23.3) 8 (26.7) | 11 (37.9) 3 (10.3) 7 (24.1) 7 (24.1) 1 (3.4) | 4 (25.0) 2 (12.5) 4 (25.0) 6 (37.5) | 2 (7.1) 1 (3.6) 6 (21.4) 7 (25.0) |
| | P-value [1] | | 0.654 | 0.414 | 0.309 | 0.456 | 0.606 | 0.317 | <0.001 |
| TP/6hr | Categorical PR scale, n(%) None A little Moderate A lot Complete | 7 (18.9) 3 (8.1) 9 (24.3) | 7 (22.6) 3 (9.7) 3 (9.7) | 1 (6.7) 5 (33.3) 3 (20.0) | 2 (12.5) 3 (18.8) 3 (18.8) | 6 (20.0) 7 (23.3) 8 (26.7) | 11 (36.7) 4 (13.3) 6 (20.0) 8 (26.7) 1 (3.3) | 2 (13.3) 4 (26.7) 5 (33.3) | 2 (7.1) 7 (25.0) 4 (14.3) |
| | P-value [1] | | 0.176 | 0.059 | 0.669 | 0.293 | 0.453 | 0.245 | <0.001 |
| Timepoint | .Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
| TP/8hr | Categorical PR scale, D(%) None A little Moderate A lot Complete | 18 (48.6) 6 (16.2) 3 (8.1) | 15 (48.4) 6 (19.4) 4 (12.9) 3 (9.7) | 5 (33.3) 1 (6.7) 4 (26.7) 5 (33.3) | 8 (50.0) 2 (12.5) 3 (18.8) | 8 (26.7) 4 (13.3) 8 (26.7) | | 4 (25.0) 2 (12.5) 5 (31.3) | 4 (14.3 3 (10.7 5 (17.9 |
| | P-value [1] | | 0.138 | 0.232 | 0.220 | 0.140 | 0.284 | 0.151 | <0.001 |
| TP/10hr | Categorical PR scale, n(%) None A little Moderate A lot Complete | 18 (48.6) 7 (18.9) 2 (5.4) 9 (24.3) 1 (2.7) | 5 (16.1) 3 (9.7) 5 (16.1) | 5 (33.3) 2 (13.3) 2 (13.3) 6 (40.0) 0 (0.0) | 3 (18.8) 2 (12.5) 1 (6.3) | 8 (26.7) 5 (16.7) 7 (23.3) 7 (23.3) 3 (10.0) | | 2 (12.5) 5 (31.3) 4 (25.0) | 6 (21.4) 4 (14.3) |
| | P-value [1] | | 0.453 | 0.405 | 0.476 | 0.074 | 0.361 | 0.131 | 0.049 |
| | P-value [1] | | 0.453 | 0.405 | 0.476 | 0.074 | 0.361 | 0.131 | 0.049 |

| Timepoint. | Statiatica | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|------------|---|--|---|--|--|---|--|--|--|
| TP/12hr | Categorical PR scale, n.(%) None A little Moderate A lot Complete | 18 (48.6) 7 (18.9) 3 (8.1) 8 (21.6) 1 (21.7) | 15 (48.4) 6 (19.4) 2 (6.5) 5 (16.1) 3 (9.7) | 5 (33.3) 1 (6.7) 4 (26.7) 5 (33.3) 0 (0.0) | 8 (50.0) 3 (18.8) 2 (12.5) 2 (12.5) 1 (6.3) | 8 (26.7) 5 (16.7) 4 (13.3) 9 (30.0) 4 (13.3) | 12 (40.0) 2 (6.7) 6 (20.0) 8 (26.7) 2 (6.7) | 4 (25.0) 2 (12.5) 4 (25.0) 5 (31.3) 1 (6.3) | 7 (25.0 5 (17.9 4 (14.3 7 (25.0 5 (17.9 |
| | P-value [1] | | 0.507 | 0.260 | 0.932 | 0.150 | 0.361 | 0.336 | 0.132 |
| IP/24hr | Categorical PR scale, n(%) None A little Moderate A lot Complete | 20 (54.1) 6 (16.2) 3 (1.1) 1 (2.7) 7 (18.9) | 16 (51.6) 5 (16.1) 1 (3.2) 4 (12.9) 5 (16.1) | 5 (33.3) 1 (6.7) 2 (13.3) 4 (26.7) 3 (20.0) | 8 (50.0) 3 (18.8) 1 (6.3) 1 (6.3) 3 (18.8) | 8 (26.7) 6 (20.0) 4 (13.3) 6 (20.0) 6 (20.0) | 12 (40.0) 3 (10.0) 4 (13.3) 6 (20.0) 5 (16.7) | 4 (25.0) 2 (12.5) 1 (6.3) 4 (25.0) 5 (31.3) | 9 (32.1 4 (14.3 4 (14.3 4 (14.3 7 (25.0 |
| | P-value [1] | | 0.575 | 0.110 | 0.942 | 0.131 | 0.189 | 0.091 | 0.266 |

Total pain relief (TOTPAR) based on categorical scale / Safety analysis set - Part A and B

| Statistics | Placebo | SAF312 50 mg | SAF312 200 mg | Ibuprofen 400 mg |
|------------|--------------|----------------|-----------------|------------------|
| | N=16 | N=30 | N=30 | N=28 |
| n | 16 | 30 | 30 | 28 |
| Mean (SD) | 0.96 (1.298) | 1.72 (1.284) | 1.49 (1.288) | 2.17 (1.198) |
| Minimum | 0.0 | 0.0 | 0.0 | 0.0 |
| Median | 0.03 | 1.78 | 1.91 | 2.20 |
| Maximum | 3.4 | 3.7 | 3.9 | 3.9 |
| 95% CI [2] | | (0.039, 1.629) | (-0.226, 1.337) | (0.480, 2.087) |
| P-yalue[2] | | 0.040 | 0.162 | 0.002 |

Time to onset of analgesia / Median time to onset of analgesia (in Mins) using Kaplan-Meier method

| Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 |
|----------------------|---|-----------------------|----------------------|----------------------|
| a | 37 | 31 | 15 | 16 |
| Number of event | 25 | 22 | 11 | 12 |
| Number of censored | 12 | 9 | 4 | 4 |
| Percent censored (%) | 32.4 | 29.0 | 26.7 | 4 25.0 |
| 50% survival time | | | | |
| Point estimate | 65.0 | 44.0 | 26.0 | 44.5 |
| 95% CI | (30.00, 104.00) | (33.00, 68.00) | (15.00, 56.00) | (20.00, 122.00) |
| P-value [1] | *************************************** | 0.569 | 0.218 | 0.423 |

| Statistics | SAF312 50 mg N=30 | SAF312 200 mg N=3.0 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|---------------------------------------|----------------------|------------------------|-----------------------|--------------------------|
| n N | 30 | 30 27 | 16 | 28 |
| Number of event Number of censored | 25 | 27 | 14 | 28 |
| Percent censored (%) | 16.7 | 10.0 | 12.5 | 0.0 |
| 50% survival time | | | | |
| Point estimate | 39.5 | 31.0 | 26.0 | 31.0 |
| 95% CI | (28.00, 58.00) | (27.00, 45.00) | (22.00, 39.00) | (27.00, 39.00) |
| P-value [1] | 0.083 | 0.014 | 0.029 | <0.001 |

Patient global evaluation

| Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 |
|-----------------------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|
| Categorical patient global | | | | | | | | |
| evaluation scale, n(%) Poor | 23 (62.2) | 19 (61.3) | 5 (33.3) | 7 (43.8) | 6 (20.7) | 7 (23.3) | 4 (25.0) | 1 (.3.6) |
| Fair | 4 (10.8) | 0 (00) | 0 (0.0) | 4 (25.0) | 7 (24.1) | 11 (36.7) | 2 (12.5) | 3 (10.7) |
| Good | 5 (13.5) | 9 (29.0) | 7 (46.7) | 2 (12.5) | 9 (31.0) | 8 (26.7) | 7 (43.8) | 12 (42.9) |
| Excellent | 5 (13.5) | 3 (1.9.7) | 3 (20.0) | 3 (18.8) | 7 (24.1) | 4 (13.3) | 3 (18.8) | 12 (42.9) |
| P-value [1] | | 0.215 | 0.043 | 0.484 | 0.015 | 0.009 | 0.061 | <0.001 |

Summary of pharmacokinetic variables

| | <u> </u> | | | | | | |
|------------|-------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|
| Variable | Statistics | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=15 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 |
| AUCinf | n | 20 | 10 | 10 | 27 | 13 | 6 |
| (hr*ug/mL) | Mean (SD) | 0.2120 (0.0455) | 0.4445 (0.107) | 0.6892 (0.147) | 1.762 (0.487) | 7.370 (1.70) | 15.97 (3.39) |
| | CV (%) | 21.48 | 23.99 | 21.30 | 27.64 | 23.06 | 21.26 |
| | Geo. mean | 0.2072 | 0.4341 | 0.6761 | 1.701 | 7.192 | 15.71 |
| | Geo. CV (%) | 22.58 | 22.79 | 20.63 | 27.64 | 23.33 | 18.91 |
| | Median | 0.2132 | 0.3970 | 0.6584 | 1.659 | 7.090 | 14.86 |
| | Min, Max | 0.131, 0.288 | 0.348, 0.642 | 0.513, 0.984 | 1.05, 2.94 | 5.46, 10.1 | 13.8, 22.7 |
| AUClast | n | 31 | 15 | 15 | 30 | 30 | 16 |
| (hr*ug/mL) | Mean (SD) | 0.1868 | 0.3872 | 0.6555 | 1.493 (0.414) | 6.272 | 13.99 (3.59) |
| | | (0.0391) | (0.0817) | (0.242) | | (1.50) | |
| | CV (%) | 20.93 | 21.11 | 36.90 | 27.75 | 24.03 | 25.66 |
| | Geo. mean | 0.1828 | 0.3799 | 0.6196 | 1.441 | 6.096 | 13.59 |
| | Geo. CV (%) | 21.71 | 19.79 | 35.24 | 27.43 | 24.94 | 24.85 |
| | Median | 0.1849 | 0.3671 | 0.6176 | 1.416 | 6.132 | 13.15 |
| | Min, Max | 0.113, 0.271 | 0.299, 0.571 | 0.312, 1.33 | 0.924, 2.51 | 3.14, 10.0 | 9.07, 21.6 |

| Variable | Statistics | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=15 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 |
|-----------|-------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|
| Cmax | n | 31 | 15 | 15 | 30 | 30 | 16 |
| (ng/mL) | Mean (SD) | 25.56 | 66.61 | 96.35 | 189.4 | 734.2 | 1580 |
| | | (4.57) | (18.6) | (26.3) | (57.4) | (195) | (631) |
| | CV (%) | 17.87 | 27.86 | 27.33 | 30.29 | 26.53 | 39.94 |
| | Geo. mean | 25.15 | 64.28 | 93.37 | 181.4 | 707.6 | 1474 |
| | Geo. CV (%) | 18.49 | 28.00 | 25.76 | 30.61 | 28.97 | 39.20 |
| | Median | 25.40 | 66.10 | 87.30 | 176.5 | 730.0 | 1325 |
| | Min, Max | 17.0, 35.3 | 44.2, 97.9 | 62.4, 162 | 97.2, 347 | 349, 1090 | 825, 2950 |
| Tmax (hr) | n | 31 | 15 | 15 | 30 | 30 | 16 |
| | Mean (SD) | 1.664 (0.792) | 1.726 (0.715) | 1.858 (0.661) | 2.044 (0.786) | 2.440 (0.817) | 2.604 (0.820) |
| | CV (%) | 47.60 | 41.44 | 35.58 | 38.47 | 33.49 | 31.51 |
| | Geo. mean | 1.486 | 1.595 | 1.743 | 1.902 | 2.313 | 2.474 |
| | Geo. CV (%) | 52.46 | 42.79 | 39.21 | 40.71 | 34.42 | 35.42 |
| | Median | 1.083 | 2.033 | 2.050 | 2.050 | 2.050 | 2.534 |
| | Min, Max | 0.533, 3.07 | 1.05, 3.05 | 1.07, 3.03 | 0.967, 4.05 | 1.00, 4.10 | 1.03, 4.07 |
| T1/2 (hr) | n | 28 | 13 | 13 | 30 | 26 | 15 |
| | Mean (SD) | 9.972 (2.51) | 9.140 (2.85) | 10.22 (5.035) | 9.487 (6.01) | 12.46 (7.28) | 15.44 (10.9) |
| | CV (%) | 25.13 | 31.22 | 49.28 | 63.29 | 58.44 | 70.34 |
| | Geo. mean | 9.679 | 8.744 | 9.361 | 8.633 | 11.04 | 12.75 |
| | Geo. CV (%) | 25.21 | 31.68 | 42.79 | 39.17 | 50.24 | 69.06 |
| | Median | 9.270 | 8.485 | 7.618 | 8.212 | 9.976 | 11.77 |
| | Min, Max | 6.43, 15.2 | 5.24, 14.6 | 5.94, 22.3 | 5.38, 38.4 | 5.30, 39.1 | 4.29, 45.8 |

CV: coefficient of variation=sd/mean*100; Geo. CV(%): sqrt(exp(variance for log transformed data)-1)*100
 PK evaluation: Non-compartmental analysis using WinNonlin Pro (Version 5.02)
 Concentrations below the Limit of Quantification are treated as zero. They are not considered for calculation of

PK variables (with the exception of the pre-dose samples).

^{4.} Note: AUClast was the same as AUC0-24hr for all subjects treated.

Time to rescue medication intake

Table 11-6 Subjects receiving rescue medication (including Tylenol) up to 24 hrs after dose

| | Time to in | ntake(hrs) | | Number of patients |
|------------------|------------|------------|-------|--------------------|
| | N | Mean* | SD* | n (%) |
| Placebo | 37 | 2.81 | 2.636 | 26 (70.3) |
| SAF312 7.5 mg | 31 | 3.87 | 4.545 | 21 (67.7) |
| SAF312 15 mg | 15 | 2.45 | 1.088 | 7 (46.7) |
| SAF312 25 mg | 16 | 4.43 | 3.183 | 12 (75.0) |
| SAF312 50 mg | 30 | 3.38 | 2.872 | 15 (50.0) |
| SAF312 200 mg | 30 | 3.76 | 3.178 | 19 (63.3) |
| SAF312 600 mg | 16 | 2.48 | 1.324 | 6 (37.5) |
| lbuprofen 400 mg | 28 | 9.65 | 4.381 | 16 (57.1) |

^{*} Mean and SD are calculated based on the number (n) of patients who took rescue medication (including Tylenol).

Proportion of patients requiring rescue medication in the first six (6) hours:

Table 11-7 Comparisons of proportions of subjects requiring rescue medication in the first 6 hours

| Statistics | Placebo N=37 | SAF312 7.5 mg N=31 | | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | lbuprofen 400 mg N=28 |
|-----------------------------------|-----------------|--------------------------|----------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|
| Use of rescue medication, n(%) | | | | | | | | |
| Yes | 24 (64.9) | 18 (58.1) | 7 (46.7) | 9 (56.3) | 13 (43.3) | 17 (56.7) | 6 (37.5) | 2 (7.1) |
| No | 13 (35.1) | 13 (41.9) | 8 (53.3) | 7 (43.8) | 17 (56.7) | 13 (43.3) | 10 (62.5) | 26 (92.9) |
| P-value [1] | | 0.680 | 0.241 | 0.726 | 0.097 | 0.546 | 0.073 | <0.001 |

Note: Tylenol is considered as a rescue medication.

Clinically relevant vital signs (all excluding body temperature):

| | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | Ibuprofen | Placebo |
|--------------------------------------|--------|--------|--------|--------|--------|--------|-----------|---------|
| Number (%) of subjects | 7.5 mg | 15 mg | 25 mg | 50 mg | 200 mg | 600 mg | 400 mg | |
| with clinically relevant vital | N=37 | N=31 | N=15 | N=16 | N=30 | N=30 | N=16 | N=28 |
| signs findings | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

Body temperature:

^[1] P-values are from Cochran-Mantel-Haenszel tests, adjusting for the number of teeth removed, comparing active treatment/dose against placebo.

| | Temp | Placebo | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | Ibuprofen |
|--------------------------------|-----------------|---------|--------|--------|--------|--------|--------|--------|-----------|
| | | | 7.5 mg | 15 mg | 25 mg | 50 mg | 200 mg | 600 mg | 400 mg |
| | | N=28 | N=37 | N=31 | N=15 | N=16 | N=30 | N=30 | N=16 |
| | <37.5 °C | 73% | 42% | 0% | 25% | 0% | 0% | 0% | 91% |
| | 37.5 – 38 °C | 22% | 42% | 80% | 18% | 23% | 7% | 13% | 6% |
| % of patients with max. | 38 – 38.5°C | 5% | 42% | 20% | 32% | 43% | 60% | 55% | 3% |
| temperature within range | ≥ 38.5°C | 0% | 0% | 0 | 25% | 33% | 33% | 32% | 0% |

Thermal perception (Part C only):

| Visit | Thermal perception | Placebo N=21 n (%) | SAF312 7.5 mg N=31 n (%) | SAF312 15 mg N=15 n (%) | SAF312 25 mg N=16 n (%) | SAF312 600 mg N=16 n (%) | Total N=99 n (%) |
|---------|--------------------|--------------------------|--------------------------------|-------------------------------|-------------------------------|--------------------------------|------------------------|
| SCR | Correct | 21 (100.0) | 31 (100.0) | 15 (100.0) | 16 (100.0) | 16 (100.0) | 99 (100.0) |
| | Not Correct | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 0 (0.0) |
| TP/24hr | Correct | 21 (100.0) | 30 (96.8) | 15 (100.0) | 16 (100.0) | 16 (100.0) | 98 (99.0) |
| | Not Correct | 0 (0.0) | 1 (3.2) | 0 (0.0) | 0 (0.0) | 0 (0.0) | 1 (1.0) |

ECG evaluation:

| Number | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | Ibuprofen | Placebo |
|--------------------------------|--------|--------|--------|--------|--------|--------|-----------|---------|
| (%) of subjects | 7.5 mg | 15 mg | 25 mg | 50 mg | 200 mg | 600 mg | 400 mg | |
| with clinically relevant | N=37 | N=31 | N=15 | N=16 | N=30 | N=30 | N=16 | N=28 |
| ECG findings | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

Cardiac Holter monitoring (Part A only)

| Treatment | Visit | Statistics | Longest RR (sec) | Maximum heart rate (bpm) | Average heart rate (bpm) | Minimum heart rate (bpm) | Afib (Time%) | Tot SVE pairs | Tot SVE run event |
|---------------|----------|------------|---------------------|--------------------------------|--------------------------------|--------------------------------|-----------------|------------------|----------------------|
| Placebo | TP/Day 1 | n | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | Mean | 1.548 | 124.0 | 69.5 | 42.3 | 0.0 | 0.0 | 0.0 |
| | | SD | 0.1156 | 4.24 | 9.26 | 2.50 | 0.00 | 0.00 | 0.00 |
| | | Minimum | 1.43 | 119 | 56 | 39 | 0 | 0 | 0 |
| | | Median | 1.545 | 124.5 | 71.0 | 42.5 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 1.67 | 129 | 76 | 45 | 0 | 0 | 0 |
| SAF312 50 mg | TP/Day 1 | n | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | Mean | 1.517 | 134.3 | 71.0 | 44.8 | 0.0 | 2.3 | 0.5 |
| | | SD | 0.1089 | 13.41 | 7.72 | 4.36 | 0.00 | 4.76 | 1.22 |
| | | Minimum | 1.41 | 125 | 62 | 40 | 0 | 0 | 0 |
| | | Median | 1.490 | 129.5 | 71.0 | 43.5 | 0.0 | 0.5 | 0.0 |
| | | Maximum | 1.72 | 161 | 83 | 51 | 0 | 12 | 3 |
| SAF312 200 mg | TP/Day 1 | n | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | | Mean | 1.390 | 133.2 | 71.7 | 50.0 | 0.0 | 0.8 | 0.0 |
| | | SD | 0.2402 | 12.62 | 11.41 | 9.63 | 0.00 | 2.04 | 0.00 |
| | | Minimum | 1.11 | 110 | 54 | 36 | 0 | 0 | 0 |
| | | Median | 1.415 | 139.0 | 73.5 | 48.0 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 1.75 | 145 | 97 | 62 | 0 | 5 | 0 |

| Treatment | Visit | Statistics | Tot single SVEs | Tot SVEs | Tot beats | Tot VE pairs | Tot VE run events | Tot single VEs | Tot VEs |
|---------------|----------|------------|--------------------|----------|-----------|-----------------|----------------------|-------------------|---------|
| Placebo | TP/Day 1 | n | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| | | Mean | 0.8 | 0.8 | 95521.3 | 0.0 | 0.0 | 0.3 | 0.3 |
| | | SD | 1.50 | 1.50 | 18617.10 | 0.00 | 0.00 | 0.50 | 0.50 |
| | | Minimum | 0 | 0 | 69040 | 0 | 0 | 0 | 0 |
| | | Median | 0.0 | 0.0 | 101683.5 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 3 | 3 | 109678 | 0 | 0 | 1 | 1 |
| SAF312 50 mg | TP/Day 1 | n | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| | | Mean | 471.0 | 477.3 | 85853.2 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | SD | 1138.09 | 1136.18 | 22875.16 | 0.00 | 0.00 | 0.00 | 0.00 |
| | | Minimum | 0 | 0 | 40907 | 0 | 0 | 0 | 0 |
| | | Median | 1.5 | 2.5 | 91662.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 2794 | 2796 | 104562 | 0 | 0 | 0 | 0 |
| SAF312 200 mg | TP/Day 1 | n | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| - | | Mean | 5.2 | 6.8 | 100988.5 | 0.0 | 0.0 | 0.3 | 0.3 |
| | | SD | 9.52 | 13.51 | 16468.99 | 0.00 | 0.00 | 0.52 | 0.52 |
| | | Minimum | 0 | 0 | 77643 | 0 | 0 | 0 | 0 |
| | | Median | 0.5 | 0.5 | 102131.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 24 | 34 | 124901 | 0 | 0 | 1 | 1 |

Table 14.3-4.3 (Page 3 of 4) Summary of Cardiac Holter data Safety analysis set

| Treatment | Visit | Statistics | Longest RR (sec) | Maximum heart rate (bpm) | Average heart rate (bpm) | Minimum heart rate (bpm) | Afib (Time%) | Tot SVE pairs | Tot SVE run events |
|------------------|----------|------------|---------------------|--------------------------------|--------------------------------|--------------------------------|-----------------|------------------|-----------------------|
| Ibuprofen 400 mg | TP/Day 1 | n | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | Mean | 1.533 | 136.7 | 63.7 | 42.0 | 0.0 | 0.0 | 0.0 |
| | | SD | 0.1888 | 12.22 | 5.51 | 6.56 | 0.00 | 0.00 | 0.00 |
| | | Minimum | 1.37 | 126 | 60 | 35 | 0 | 0 | 0 |
| | | Median | 1.490 | 134.0 | 61.0 | 43.0 | 0.0 | 0.0 | 0.0 |
| | | Maximum | 1.74 | 150 | 70 | 48 | 0 | 0 | 0 |

Safety Results

Note: 1. Cardiac Holter was done only for Part A.

Only the measurements taken within 24 hours were used for the calculation of the statistics.

Adverse Events

Table 12-1 Incidence of AEs by body system and preferred term - n (%) of subjects (all subjects more than 10% in any group) (Safety set)

| Body system | Preferred term | Placebo N=37 | SAF312 7.5 mg N=31 | SAF312 15 mg N=15 | SAF312 25 mg N=16 | SAF312 50 mg N=30 | SAF312 200 mg N=30 | SAF312 600 mg N=16 | Ibuprofen 400 mg N=28 | Total N=203 |
|--|-------------------|-----------------|--------------------------|-------------------------|-------------------------|-------------------------|--------------------------|--------------------------|-----------------------------|----------------|
| -Any body system | | 5 (13.5) | 14 (45.2) | 7 (46.7) | 10 (62.5) | 22 (73.3) | 24 (80.0) | 13 (81.3) | 3 (10.7) | 98 (48.3) |
| Gastrointestinal disorders | -Total | 1 (2.7) | 5 (16.1) | 0 (0.0) | 2 (12.5) | 6 (20.0) | 4 (13.3) | 3 (18.8) | 1 (3.6) | 22 (10.8) |
| | Nausea | 1 (2.7) | 3 (9.7) | 0 (0.0) | 1 (6.3) | 6 (20.0) | 4 (13.3) | 3 (18.8) | 1 (3.6) | 19 (9.4) |
| | Vomiting | 0 (0.0) | 1 (3.2) | 0 (0.0) | 2 (12.5) | 0 (0.0) | 2 (6.7) | 3 (18.8) | 0 (0.0) | 8 (3.9) |
| General disorders and administration site conditions | -Total | 0 (0.0) | 9 (29.0) | 7 (46.7) | 6 (37.5) | 21 (70.0) | 23 (76.7) | 11 (68.8) | 0 (0.0) | 77 (37.9) |
| | Chills | 0 (0.0) | 6 (19.4) | 6 (40.0) | 6 (37.5) | 14 (46.7) | 15 (50.0) | 7 (43.8) | 0 (0.0) | 54 (26.6) |
| | Hyperthermia | 0 (0.0) | 0 (0.0) | 1 (6.7) | 3 (18.8) | 11 (36.7) | 16 (53.3) | 8 (50.0) | 0 (0.0) | 39 (19.2) |
| | Feeling cold | 0 (0.0) | 1 (3.2) | 1 (6.7) | 0 (0.0) | 1 (3.3) | 2 (6.7) | 2 (12.5) | 0 (0.0) | 7 (3.4) |
| Nervous system disorders | -Total | 2 (5.4) | 3 (9.7) | 0 (0.0) | 2 (12.5) | 4 (13.3) | 4 (13.3) | 2 (12.5) | 0 (0.0) | 17 (8.4) |
| | Dizziness | 2 (5.4) | 1 (3.2) | 0 (0.0) | 0 (0.0) | 4 (13.3) | 2 (6.7) | 0 (0.0) | 0 (0.0) | 9 (4.4) |

Serious Adverse Events and Deaths

| NI I | | | | | | | | |
|--------------------------------|--------|--------|--------|--------|--------|--------|-----------|---------|
| Number (%) of | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | SAF312 | Ibuprofen | Placebo |
| subjects with serious or | 7.5 mg | 15 mg | 25 mg | 50 mg | 200 mg | 600 mg | 400 mg | |
| other significant events | N=37 | N=31 | N=15 | N=16 | N=30 | N=30 | N=16 | N=28 |
| Death | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| SAE(s) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |
| Discontinued due to SAE(s) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) | 0 (0%) |

Other Relevant Findings

Not applicable.

Date of Clinical Trial Report

18-Apr-2012

Date Inclusion on Novartis Clinical Trial Results Database

30-May-2012

Date of Latest Update

30-May-2012