**Supplementary File2.**

Statistical analysis of areas (cm2) of alloknesis, hyperalgesia, hyperknesis, wheal and flare/ or local erythema evoked by injection of a BAM8-22, ALA, HIS, a combination of BAM8-22 and ALA, and a combination of BAM8-22 and ALA and HIS.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **BAM8-22** | **ALA** | **HIS (\*)** | **BAM8-22 + ALA** | **BAM8-22 + ALA + HIS (\*\*)** |
| **Alloknesis** | 4.0 ± 1.2  \*p =0.000043  \*\*p = 0.04701 | 3.7 ± 0.9  \*p = 0.000024  \*\*p = 0.03076 | 17.4 ± 3.8 | 3.7 ±1.4  \*p = 0.00002769  \*\*p = 0.03387 | 12.0 ± 2.9 |
| **Hyperalgesia** | 8.7 ±2.1  \*p = 0.00009063  \*\*p = 0.001371 | 5.7 ± 1.4  \*p = 0.0000006871  \*\*p = 0.00001542 | 21.0 ± 3.8 | 10.6 ± 2.5  \*p = 0.001512  \*\*p = 0.01673 | 19.1 ± 3.5 |
| **Hyperknesis** | 7.2 ± 1.9  \*p = 0.01417  \*\*p = 0.007371 | 5.4 ± 1.5  \*p = 0.001226  \*\*p = 0.0005838 | 15.4 ± 2.9 | 10.0 ± 2.6 | 15.9 ± 3.2 |
| **Wheal** | 0.5 ± 0.1  \*p < 0.0000001  \*\*p < 0.0000001 | 0.3 ± 0.0  \*p < 0.0000001  \*\*p < 0.0000001 | 1.9 ± 0.1 | 0.6 ± 0.1  \*p < 0.0000001  \*\*p < 0.0000001 | 1.9 ± 0.2 |
| **Flare/Erythema** | 5.4 ± 1.5  \*p < 0.0000001  \*\*p < 0.0000001 | 1.2 ± 0.7  \*p < 0.0000001  \*\*p < 0.0000001 | 21.5 ± 3.0 | 5.7 ± 1.0  \*p < 0.0000001  \*\*p < 0.0000001 | 21.0 ± 2.6 |

\*: Bonferroni post hoc p-values compared to HIS. \*\*: Bonferroni post hoc p-values compared to BAM8-22 + ALA + HIS. Units are in cm2 and calculated as mean ± SEM. Data from all 29 subjects were included in the analysis.