**Figure A**

Comparison of skin temperature changes with and without PMX53 treatment. Left: PMX53+PBS-vehicle. Right: PMX53+C5a 1μg/ml.

**Figure B**

Scatter plot showing the number of action potentials (AP) at incision length ≤2 mm. PBS-vehicle vs. PMX53+PBS or PMX53+C5a 1μg/ml.

**Figure C**

Distribution of action potentials at different skin temperatures during heat application. PBS-vehicle vs. PMX53+PBS or PMX53+C5a 1μg/ml.

**Figure D**

Bar graph showing the percentage of heat-responsive fibers at different incision lengths. PBS-vehicle vs. PMX53+PBS or PMX53+C5a 1μg/ml.

**Figure E**

Further comparison of heat-responsive fiber percentages at incision length ≥2 mm. PBS-vehicle vs. PMX53+PBS or PMX53+C5a 1μg/ml.

**Threshold**

**During heat (20s)**

**After heat (40s)**