Mechanism and site of action of big dynorphin on ASIC1a

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Please always refer to the **latest versions** of the uploaded files, as we will continuously try to increase the readability of the files

This data set contains:

- DNA sequences of mASIC1a ('mASIC1a_WT&variants.pdf') and hASIC1a ('hASIC1a&variants.pdf') variants used in relation to the publication
- Prism files containing the data shown in the publication (13 .pzfx files)

Accessing the Prism files:

A free trial version for Prism GraphPad is available under the following link.

https://www.graphpad.com/demos/

Each prism files contains the data tables of the read-outs from electrophysiological recordings described in the main text of the manuscript.

Some clarifications to increase the readability of the prism files:

As described in the methods section of the SI Appendix of the manuscript, only data where the last pH 5.6 application resulted in currents that were ≥ 80 % of prior pH 5.6 activation under the same conditions, were used (files with '≥ 80 %' in their title don't contain data that doesn't fulfill the criteria).

As further stated in the data analysis of the SI Appendix:

'For proton concentration-response data, peak current amplitudes were plotted against pH and fitted with the Hill equation for each recording. These were averaged to give the reported means ± 95CI in the main text. For display in figures, a single fit to the average normalized responses (± 95CI) is shown. All bar diagrams and summarized data points are presented as mean ± 95CI unless stated otherwise and number of replicates (n) represents individual experimental oocytes. Results were obtained from at least two batches of oocytes unless indicated differently. An unpaired t-test was used to compare two groups. Multiple comparisons were made with one-way analysis of variance with Dunnett's comparison to a control value (e.g. comparing with WT) or with Tukey's test for multiple comparisons.'

Please contact the corresponding author (stephan.pless@sund.ku.dk) for further questions.