

Supplementary Information

Supplementary Figure S1: Activation of hTREK1 current by GI-530159 in automated patch recordings.

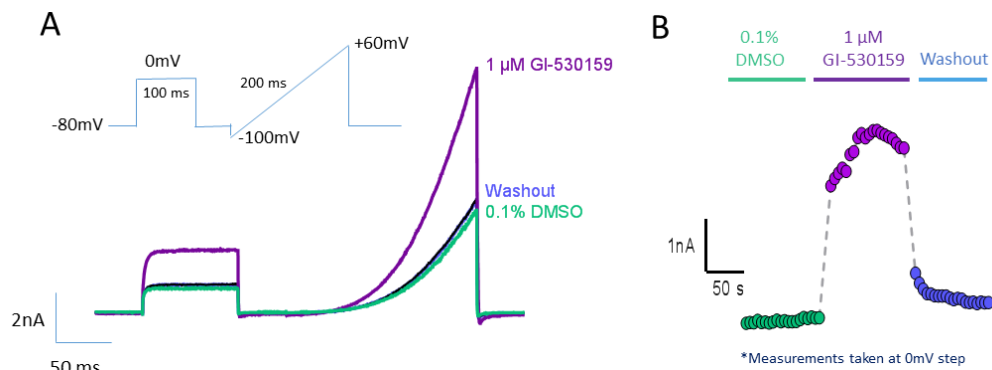


Figure S1: Activation of hTREK1 current by GI-530159 in automated patch recordings.

A) Human TREK1 current elicited by pulse protocol shown recorded on Qpatch 16 automated patch clamp platform after administration of 0.1% DMSO vehicle, 1 μM GI-530159 or after washout with 0.1% DMSO. B) Time course of TREK1 current amplitude recorded at 0 mV on Qpatch platform before during and after washout of 1 μM GI-530159.

Supplementary Figure S2: Activation of hTRAAK current by BL-1249.

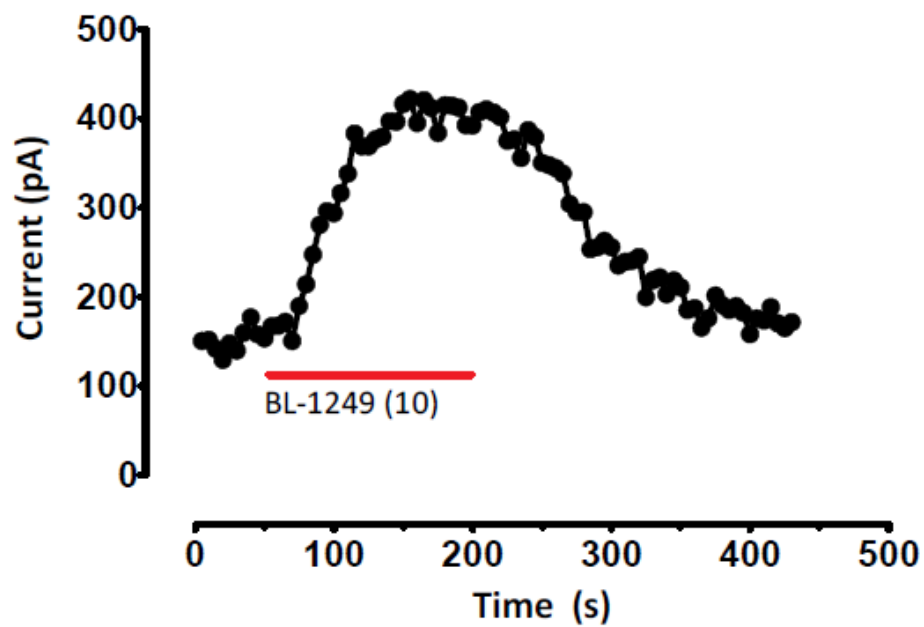


Figure S2: BL-1249 (10 μ M) activates hTRAAK channels transiently transfected in tsA-201 cells.

Supplementary Figure S3: Single DRG neuron transcriptome – TREK2 channels.

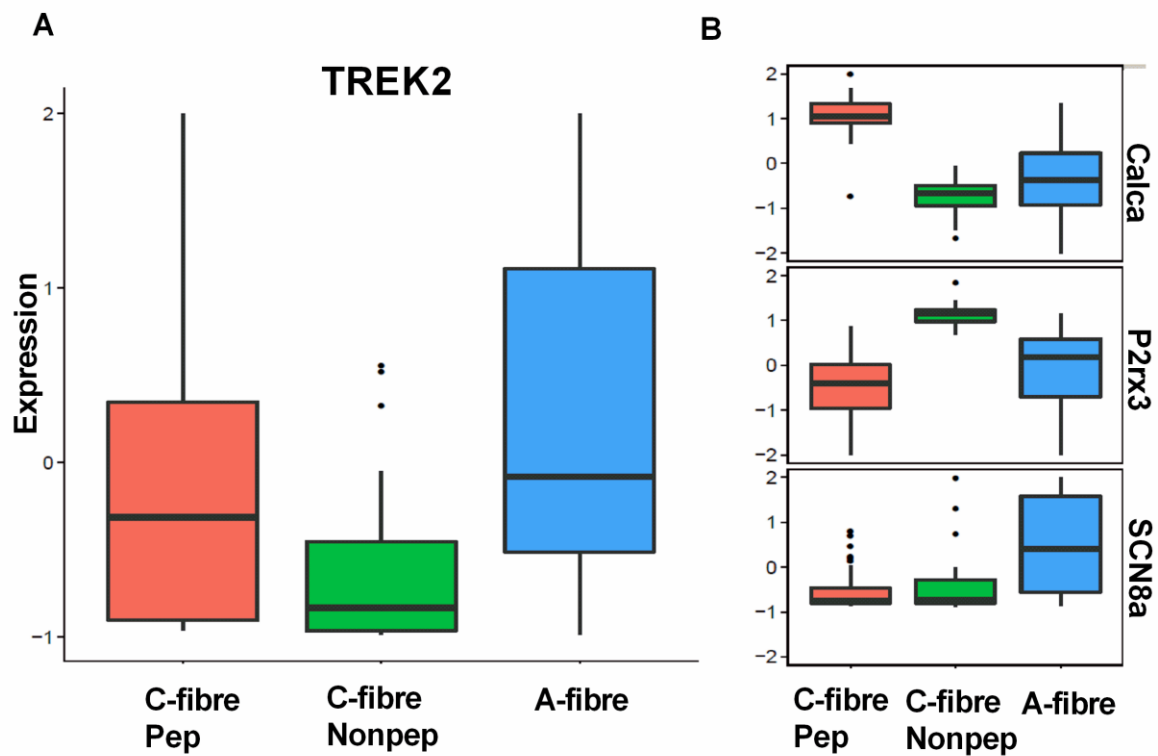


Figure S3. Single DRG neuron transcriptome – TREK2 channels.

A) Differential TREK2 expression in single peptidergic C fibres, Non-peptidergic C fibres and A fibres. B) Comparative expression of selective markers for peptidergic C fibres (Calca), non-peptidergic C fibres (P2rx3) and A fibres (SCN8a). Expression is given as log₂ FPKM. Data are from 120 individual DRG neurons isolated from 4 rats.

Supplementary Figure S4: Single DRG neuron transcriptome – TRAAK channels.

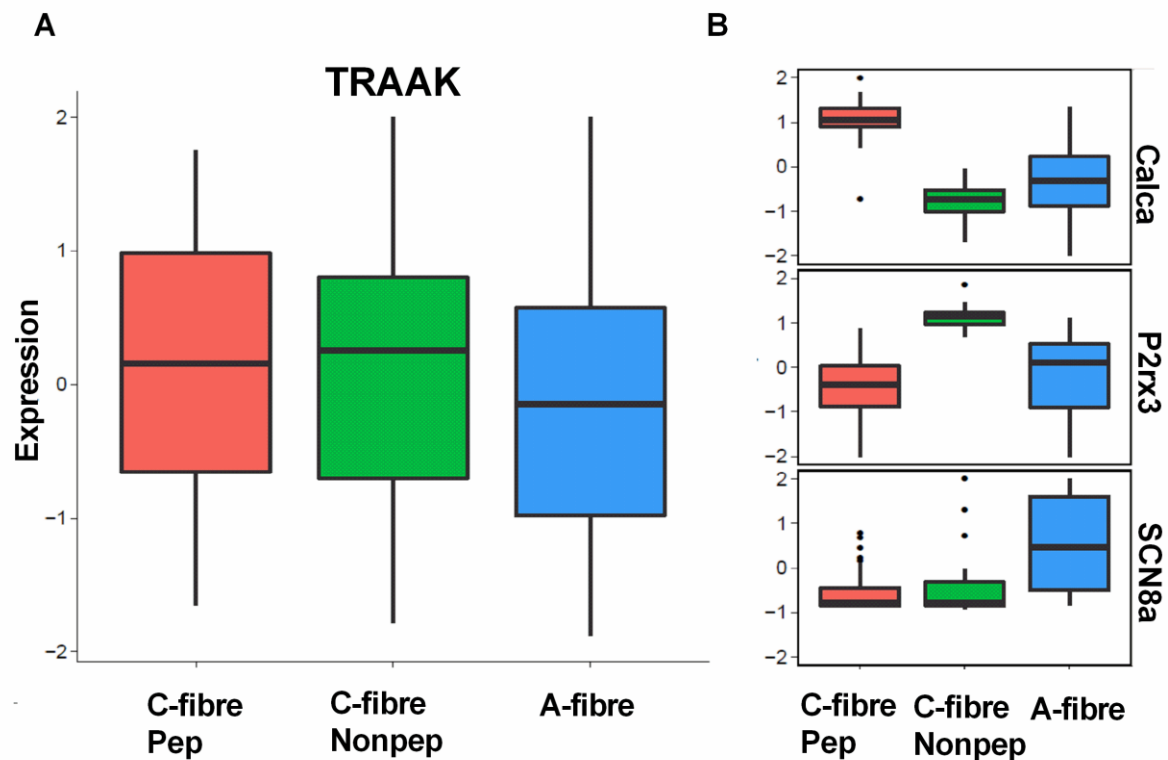


Figure S4. Single DRG neuron transcriptome – TRAAK channels.

A) Differential TRAAK expression in single peptidergic C fibres, Non-peptidergic C fibres and A fibres. B) Comparative expression of selective markers for peptidergic C fibres (Calca), non-peptidergic C fibres (P2rx3) and A fibres (SCN8a). Expression is given as log₂ FPKM. Data are from 120 individual DRG neurons isolated from 4 rats.