



Supplementary Figure S1. TRPV4 inhibition does not affect GABA-evoked extracellular Ca²⁺ entry in hCMEC/D3 cells. A, GABA-induced Ca²⁺ influx was not inhibited by blocking TRPV4 channels with RN-1734 (20 μ M, 20 min). Intracellular Ca²⁺ release is not shown. B, Mean \pm SE of the amplitude of GABA-evoked extracellular Ca²⁺ entry in the absence (Ctrl) and presence of RN-1734.

Supplementary Table S1. Primers used for real-time

primer name	sequence 5'-3'	target	amplicon (bp)	Tm	NCBI Reference Sequence	Sequence Name
gabaA-a1_alt_F	TGGAAAGAAGTCAGTGGCCCA	GABA _A -α1	102	61.6	NM_000806.5	Homo sapiens gamma-aminobutyric acid type A receptor subunit alpha1 (GABRA1), transcript variant 1, mRNA
gabaA-a1_alt_R	GCTCTCACTGTCAGCCTCATGG			62.93		
gabaA-a2_F	CTGCTTGCCGTTTCAGAGCG	GABA _A -α2	115	62.5	NM_000807.4	Homo sapiens gamma-aminobutyric acid type A receptor subunit alpha2 (GABRA2), transcript variant 1, mRNA
gabaA-a2_R	ATGTTAGCCAGCACCAACCT			59.59		
gabaA-a3_F	GCCCGTACAGTCTTTGGTGT	GABA _A -α3	118	60.25	NM_000808.4	Homo sapiens gamma-aminobutyric acid type A receptor subunit alpha3 (GABRA3), mRNA
gabaA-a3_R	AGACGGCTATGAACCAATCC			59.18		
gabaA-a6_F	GACGACCCTAGGAGGGTGAA	GABA _A -α6	97	60.32	NM_000811.3	Homo sapiens gamma-aminobutyric acid type A receptor subunit alpha6 (GABRA6), mRNA
gabaA-a6_R	AGGGCATTCTTAGCCACAGA			59.36		
gabaA-b1_F	TGTGGACAGTACAAAATCGAGAGA	GABA _A -β1	93	59.72	NM_000812.4	Homo sapiens gamma-aminobutyric acid type A receptor subunit beta1 (GABRB1), mRNA
gabaA-b1_R	TGGGTTCATTGGTGCTGTGT			60.11		
gabaA-b2_F	TTTACTGGCGTGGCGATGAT	GABA _A -β2	125	60.11	NM_021911.3	Homo sapiens gamma-aminobutyric acid type A receptor subunit beta2 (GABRB2), transcript variant 1, mRNA
gabaA-b2_R	CCTGGGATAGGAACCTGTGG			59.16		
gabaA-b3_F	CTGCGCCAGAGTGTGAAC	GABA _A -β3	96	61.32	NM_000814.6	Homo sapiens gamma-aminobutyric acid type A receptor subunit beta3 (GABRB3), transcript variant 1, mRNA
gabaA-b3_R	TCGGGTCTTAGCGAATGTC			59.54		
gabaA-g1_alt_F	TGCAGAACAGGATCTTGGAGGGA	GABA _A -γ1	97	63.26	NM_173536.4	Homo sapiens gamma-aminobutyric acid type A receptor subunit gamma1 (GABRG1), mRNA
gabaA-g1_alt_R	ACAGGGCAAAAGCGGTTGGG			63.89		
gabaA-g2_F	AGCTCAGTCTACTCGACTCCT	GABA _A -γ2	90	52.38	NM_198904.4	Homo sapiens gamma-aminobutyric acid type A receptor subunit gamma2 (GABRG2), transcript variant 1, mRNA
gabaA-g2_R	CTGGCTAGTGAAGCCAGGGT			60		
gabaA-g3_F	TTCCCTGTATACTGACTGTGGT	GABA _A -γ3	94	58.21	NM_033223.5	Homo sapiens gamma-aminobutyric acid type A receptor subunit gamma3 (GABRG3), transcript variant 1, mRNA
gabaA-g3_R	ACCGTGGTGATGCCTAATGC			60.75		
gabaB1_F	GCGGCTGTGTCCGAATCTGCT	GABA _B -1	131	65.59	NM_001470.4	Homo sapiens gamma-aminobutyric acid type B receptor subunit 1 (GABBR1), transcript variant 1, mRNA
gabaB1_alt_R	CAGATGGAAGTCGGGGTCACAC			62.87		
gabaB2_F	TGGAGGCGTCTGTCCATCCGT	GABA _B -2	93	65.62	NM_005458.8	Homo sapiens gamma-aminobutyric acid type B receptor subunit 2 (GABBR2), mRNA
gabaB2_alt_R	ACAGGCGTGGTTGCAGCAAAA			65.99		