GI-530159

Cat. No.: HY-W013712

CAS No.: 69563-88-8

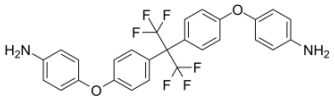
Molecular Formula: $C_{27}H_{20}F_6N_2O_2$

Molecular Weight: 518.45

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage: 4°C, sealed storage, away from moisture and light
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (482.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	1.9288 mL	9.6441 mL	19.2883 mL
	5 mM	0.3858 mL	1.9288 mL	3.8577 mL
	10 mM	0.1929 mL	0.9644 mL	1.9288 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

GI-530159 is a selective, mechanosensitive opener of TREK1 (K_{2P}2.1) and TREK2 (K_{2P}10.1) channels, with an EC_{50} of 0.76 μM for TREK1. GI-530159 displays selectivity for TREK1/2 over TRAAK, TASK3 and other potassium channels. GI-530159 reduces rat dorsal root ganglion neuron excitability[1].

REFERENCES

[1]. Loucif AJC, et al. GI-530159, a novel, selective, mechanosensitive two-pore-domain potassium (K2P) channel opener, reduces rat dorsal root ganglion neuron excitability. Br J Pharmacol. 2018;175(12):2272-2283.

Caution: Product has not been fully validated for medical applications. For research use only.

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