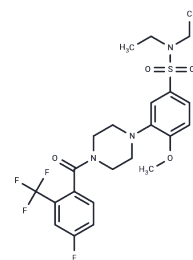


BT-13

Chemical Properties

CAS No. : 924537-98-4
 Formula: C₂₃H₂₇F₄N₃O₄S
 Molecular Weight: 517.54
 Appearance: no data available
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	BT-13 is a selective agonist of glial cell line-derived neurotrophic factor (GDNF) receptor RET independently of GFLs. BT-13 promotes neurite growth from sensory neurons in vitro.
Targets(IC50)	c-RET
In vitro	BT-13 stimulates phosphorylation of RET and RET-dependent intracellular signaling, but does not activate the BDNF receptor TrkB, the NGF receptor TrkA, or associated intracellular signaling in the absence of RET.
In vivo	In rats with surgery-induced neuropathy, BT-13 (20 and 25mg/kg in rats induced by ligation of left L5 and L6 spinal nerves) has a slight antinociceptive/antihyperalgesic effect and protected DRG neurons.

Solubility Information

Solubility	DMSO: 25 mg/mL (48.31 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9322 mL	9.6611 mL	19.3222 mL
5 mM	0.3864 mL	1.9322 mL	3.8644 mL
10 mM	0.1932 mL	0.9661 mL	1.9322 mL
50 mM	0.0386 mL	0.1932 mL	0.3864 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Sidorova YA, et al. A Novel Small Molecule GDNF Receptor RET Agonist, BT13, Promotes Neurite Growth from Sensory Neurons in Vitro and Attenuates Experimental Neuropathy in the Rat. Front Pharmacol. 2017 Jun 21;8:365.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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