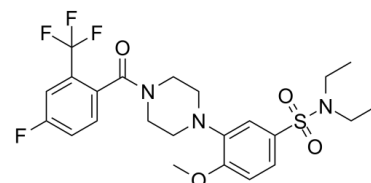


Data Sheet

Product Name:	BT-13
Cat. No.:	CS-0086405
CAS No.:	924537-98-4
Molecular Formula:	C ₂₃ H ₂₇ F ₄ N ₃ O ₄ S
Molecular Weight:	517.54
Target:	RET
Pathway:	Protein Tyrosine Kinase/RTK
Solubility:	DMSO : 25 mg/mL (48.31 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

BT-13 is a potent and selective **glial cell line-derived neurotrophic factor (GDNF) receptor RET** agonist independently of GFLs, promoting neurite growth from sensory neurons in vitro and attenuates experimental neuropathy in the Rat^[1]. IC₅₀ & Target: GDNF receptor RET^[1]. **In Vitro:** BT-13 stimulates phosphorylation of RET, as well as RET-dependent intracellular signaling, but activated neither NGF receptor TrkA nor BDNF receptor TrkB nor intracellular signaling in the absence of RET^[1]. **In Vivo:** 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 in rats with surgery-induced neuropathy^[1].

References:

[1]. 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.

CAIndexNames:

Benzenesulfonamide, N,N-diethyl-3-[4-[4-fluoro-2-(trifluoromethyl)benzoyl]-1-piperazinyl]-4-methoxy-

SMILES:

O=S(C1=CC=C(OC)C(N2CCN(C(C3=CC=C(F)C=C3C(F)(F)F)=O)CC2)=C1)(N(CC)CC)=O

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

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