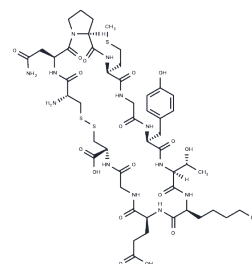


Cyclotraxin B

Chemical Properties

CAS No. :	1203586-72-4
Formula:	C48H73N13O17S3
Molecular Weight:	1200.36
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Antagonist of TrkB receptors; inhibits BDNF-induced TrkB activity (IC ₅₀ = 0.30 nM). Allosterically alters TrkB receptor conformation but does not alter BDNF binding. Prevents BDNF-induced cold allodynia in mice. Also shown to exhibit putative anxiolytic properties in mice.
Targets(IC ₅₀)	p38 MAPK,Trk receptor

Solubility Information

Solubility	H ₂ O: 2 mg/mL (1.67 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	0.8331 mL	4.1654 mL	8.3308 mL
5 mM	0.1666 mL	0.8331 mL	1.6662 mL
10 mM	0.0833 mL	0.4165 mL	0.8331 mL
50 mM	0.0167 mL	0.0833 mL	0.1666 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Constandil et al (2012) Cyclotraxin-B, a new TrkB antagonist, and glial blockade by propentofylline, equally prevent and reverse cold allodynia induced by BDNF or partial infraorbital nerve constriction in mice. J.Pain 13 579

PMID:

Cazorla et al (2010) Cyclotraxin-B, the first highly potent and selective TrkB antagonist, has anxiolytic properties in mice. PLoS One 5 e9777 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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