

Cyclotraxin B acetate(1203586-72-4 free base)

Chemical Properties

CAS No. :

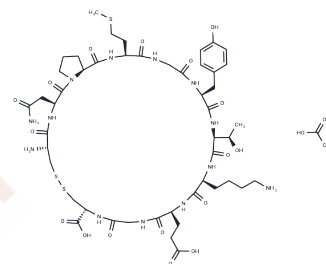
Formula: C50H77N13O19S3

Molecular Weight: 1260.42

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Cyclotraxin B acetate is an 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)	Trk receptor

Solubility Information

Solubility	DMSO: 10 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	0.7934 mL	3.9669 mL	7.9339 mL
5 mM	0.1587 mL	0.7934 mL	1.5868 mL
10 mM	0.0793 mL	0.3967 mL	0.7934 mL
50 mM	0.0159 mL	0.0793 mL	0.1587 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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