Cyclotraxin B

®

MedChemExpress

Cat. No.:	HY-P1178	
CAS No.:	1203586-72-4	S-HN-O
Molecular Formula:	$C_{48}H_{73}N_{13}O_{17}S_{3}$	
Molecular Weight:	1200.37	
Sequence Shortening:	CNPMGYTKEGC (Disulfide bridge:Cys1-Cys11)	
Target:	Trk Receptor	
Pathway:	Neuronal Signaling; Protein Tyrosine Kinase/RTK	
Storage:	Stored under nitrogen, away from moisture	H ₂ N HO
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from moisture)	

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 100 mg/mL (83.31 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		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	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent o Solubility: 100 mg	one by one: PBS /mL (83.31 mM); Clear solution; Nee	d ultrasonic			

BIOLOGICAL ACTIVITY				
Description	Cyclotraxin B, a cyclic peptide, is a highly potent and selective TrkB inhibitor without altering the binding of BDNF.			
	blood-brain-barrier and has analgesic and anxiolytic-like behavioral effects ^{[1][2][3]} .			
IC ₅₀ & Target	TrkB			

CUSTOMER VALIDATION

NH₂

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- Br J Pharmacol. 2021 Oct 8.
- Genes Brain Behav. 2023 Mar 8;e12842.
- J Mol Neurosci. 2022 Dec 17.

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REFERENCES

[1]. Maxime Cazorla, et al. Cyclotraxin-B, the first highly potent and selective TrkB inhibitor, has anxiolytic properties in mice. PLoS One. 2010 Mar 19;5(3):e9777.

[2]. Luis Constandil, et al. 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. 2012 Jun;13(6):579-89.

[3]. Michel M M Verheij, et al. Systemic Delivery of a Brain-Penetrant TrkB Antagonist Reduces Cocaine Self-Administration and Normalizes TrkB Signaling in the Nucleus Accumbens and Prefrontal Cortex. J Neurosci. 2016 Aug 3;36(31):8149-59.

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

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