

Myr-Tat-CBD3 TFA

Chemical Properties

CAS No. :

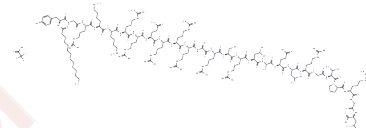
Formula: C148H269N59O33.XCF3COOH

Molecular Weight: 3403.10

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

Myr-Tat-CBD3 is a chemical compound that serves as an inhibitor of the protein-protein interaction between the N-type voltage-gated calcium channel Cav2.2 and collapsin response mediator protein 2 (CRMP2). This compound effectively disrupts the Cav2.2-CRMP2 interaction by about 81% at a 10 μM concentration and demonstrates an inhibitory concentration 50 (IC₅₀) value of approximately 2.8 μM against potassium-induced calcium influx in primary rat dorsal root ganglion (DRG) neurons. Furthermore, at a concentration of 20 μM , Myr-Tat-CBD3 specifically inhibits calcium currents without affecting sodium currents in primary DRG neurons. Additionally, intrathecal administration of 20 $\mu\text{g}/5 \mu\text{l}$ of Myr-Tat-CBD3 effectively mitigates carrageenan-induced declines in paw withdrawal latencies in rats, indicating its potential for pain relief. The compound also notably reduces cue-induced reinstatement of cocaine-seeking behavior in rats, suggesting therapeutic potential in addiction treatment.

Solubility Information

Solubility

H₂O: Soluble
($< 1 \text{ mg/ml}$ refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.2938 mL	1.4692 mL	2.9385 mL
5 mM	0.0588 mL	0.2938 mL	0.5877 mL
10 mM	0.0294 mL	0.1469 mL	0.2938 mL
50 mM	0.0059 mL	0.0294 mL	0.0588 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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