

Tat-CBD3 TFA

Chemical Properties

CAS No. :

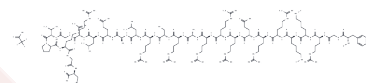
Formula: C134H243N59O32.XCF3COOH

Molecular Weight: 3192.74

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

Tat-CBD3 is a chemical compound inhibiting the interaction between the N-type voltage-gated calcium channel Cav2.2 and collapsin response mediator protein 2 (CRMP2), as well as the interaction between CRMP2 and the NMDA receptor NR2B subunit. At a concentration of 10 μM , Tat-CBD3 reduces the Cav2.2-CRMP2 interaction by 43% in cell-free assays and impedes the NMDA receptor NR2B subunit-CRMP2 interaction in immunoprecipitation assays. It lowers voltage-induced calcium currents by about 60% in primary rat dorsal root ganglion (DRG) neurons and decreases glutamate-induced cytosolic calcium level rises in primary rat hippocampal neurons. When administered at 20 mg/kg, Tat-CBD3 lessens infarct volume in a rat model of cerebral ischemia following middle cerebral artery occlusion (MCAO). Additionally, intrathecal delivery of Tat-CBD3 at a dose of 20 $\mu\text{g}/5 \mu\text{l}$ mitigates carrageenan-induced thermal hypersensitivity in rats.

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	0.3132 mL	1.5661 mL	3.1321 mL
5 mM	0.0626 mL	0.3132 mL	0.6264 mL
10 mM	0.0313 mL	0.1566 mL	0.3132 mL
50 mM	0.0063 mL	0.0313 mL	0.0626 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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