

Tat-NTS Peptide TFA

Chemical Properties

CAS No. :

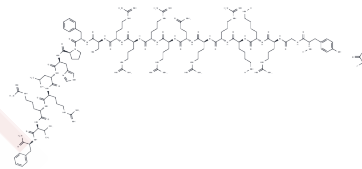
Formula: C125H212N54O24.XCF3COOH

Molecular Weight: 2855.40

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-NTS peptide, a cell-penetrating compound, comprises the HIV-1 Tat protein transduction domain fused with a 10-amino acid sequence (residues 228-237) from the repeat III domain of annexin A1, serving as a nuclear translocation signal (NTS). This peptide hinders the interaction between annexin A1 and importin β , obstructing annexin A1's nuclear entry in primary mouse hippocampal neurons. Tat-NTS effectively prevents apoptosis triggered by glucose-oxygen deprivation and reperfusion in these neurons. When administered in vivo at a dosage of 10 mg/kg, it significantly reduces infarct size, minimizes neuronal apoptosis, and improves navigation performance in the Morris water maze test for mice subjected to ischemia-reperfusion injury via middle cerebral artery occlusion (MCAO).
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Solubility Information

Solubility	H2O: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3502 mL	1.7511 mL	3.5021 mL
5 mM	0.070 mL	0.3502 mL	0.7004 mL
10 mM	0.035 mL	0.1751 mL	0.3502 mL
50 mM	0.007 mL	0.035 mL	0.070 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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