

Tat-CIRP TFA

Chemical Properties

CAS No. :

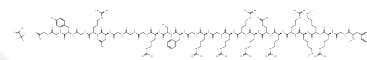
Formula: C123H206N56O33.XCF3COOH

Molecular Weight: 2997.30

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-CIRP, a peptide inhibitor, impedes the protein-protein interaction between myeloid differentiation 2 (MD-2), also known as lymphocyte antigen 96 (LY96), and cold-inducible RNA binding protein (CIRP) by binding to MD-2. This disrupts the MD-2 and CIRP interaction as confirmed in co-immunoprecipitation assays. Notably, in vivo studies reveal that Tat-CIRP, at dosages of 10 and 20 mg/kg, significantly reduces infarct volume in both a mouse model of middle cerebral artery occlusion (MCAO) and a rhesus monkey model of thrombosis-induced stroke. Additionally, it improves motor function, evidenced by decreased time to manipulate and withdraw food with the affected arm in the primate model.
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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	0.3336 mL	1.6682 mL	3.3363 mL
5 mM	0.0667 mL	0.3336 mL	0.6673 mL
10 mM	0.0334 mL	0.1668 mL	0.3336 mL
50 mM	0.0067 mL	0.0334 mL	0.0667 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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