

TRPV1-Tat TFA

Chemical Properties

CAS No. :

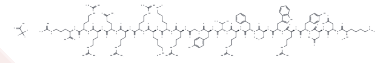
Formula: C127H206N50O29S.XCF3COOH

Molecular Weight: 2929.40

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

TRPV1-Tat, a peptide antagonist targeting transient receptor potential vanilloid 1 (TRPV1), is composed of amino acids 736-745 derived from TRPV1's A-kinase anchor protein (AKAP)-binding domain, combined with the HIV Tat-derived cell-penetrating peptide sequence. At a concentration of 200 μM , TRPV1-Tat effectively inhibits heat or phorbol 12-myristate 13-acetate (PMA014)-induced currents in primary mouse dorsal root ganglia via whole-cell patch-clamp assays. Additionally, when administered at dosages of 10 or 30 μM , it elevates the mechanical pain threshold in the hind paws of rats.

Solubility Information

Solubility

PBS pH 7.2: 5 mg/mL (1.71 mM), Sonication is recommended.
DMF: 1 mg/mL (0.34 mM), Sonication is recommended.
(< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3414 mL	1.7068 mL	3.4137 mL
5 mM	0.0683 mL	0.3414 mL	0.6827 mL
10 mM	0.0341 mL	0.1707 mL	0.3414 mL
50 mM	0.0068 mL	0.0341 mL	0.0683 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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