

Substance P(1-7) TFA

Chemical Properties

CAS No. : 2828433-22-1

Formula: C43H66F3N13O12

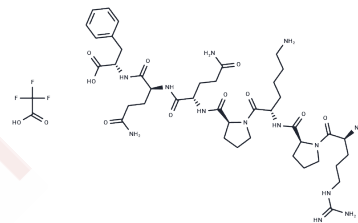
Molecular Weight: 1014.06

Storage:

Keep away from moisture, Keep away from direct sunlight, Store at low temperature

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	Substance P(1-7) TFA is a fragment of neuropeptide P (SP) with anti-nociceptive activity. It prevents morphine-induced spontaneous pain behavior through the spinal NMDA-NO cascade, and can be used in research on neurological diseases.
Targets(IC50)	Neurokinin receptor
In vivo	Injection of low doses of Substance P(1-7) TFA (1.0-4.0 pM) and concomitant administration of SP or SP(5-11) (0.1 nM) significantly inhibited aversive behaviors triggered by SP or SP(5-11). These findings suggest that endogenously generated Substance P(1-7) may play an important function in the spinal cord by modulating the action of SP or SP(5-11). [1]

Solubility Information

Solubility	H2O: 40 mg/mL (39.45 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9861 mL	4.9307 mL	9.8613 mL
5 mM	0.1972 mL	0.9861 mL	1.9723 mL
10 mM	0.0986 mL	0.4931 mL	0.9861 mL
50 mM	0.0197 mL	0.0986 mL	0.1972 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.

Reference

Sakurada T, et al. Substance P(1-7) antagonizes substance P-induced aversive behaviour in mice. *Neurosci Lett.* 1988 Dec 19;95(1-3):281-5.

Herrera-Marschitz M, et al. The substance P(1-7) fragment is a potent modulator of substance P actions in the brain. *Brain Res.* 1990 Jun 25;521(1-2):316-20.

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