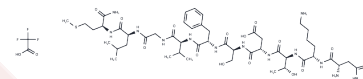


Neurokinin A TFA

Chemical Properties

CAS No. :	2828433-19-6
Formula:	C52H81F3N14O16S
Molecular Weight:	1247.34
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Neurokinin A TFA (NKA TFA) is a neuropeptide within the neurokinin family, serving as the endogenous ligand and agonist for the NK-2 (Neurokinin 2) receptor. It regulates the nervous system, inflammation, and pain, and is applicable for research into asthma, inflammatory bowel disease, rheumatoid arthritis pain, and psychiatric disorders.
Targets(IC50)	Neurokinin receptor
In vitro	Neurokinin A TFA is a peptide neurotransmitter belonging to the tachykinin family. All tachykinins share a conserved COOH-terminal structure of Phe-X-Gly-Leu-Met-NH ₂ , and the most representative members of this family are Substance P and Neurokinin A. Neurokinin A TFA may act as a crucial mediator in human airway and gastrointestinal tissues. It exerts its effects through NK-2 receptors localized on smooth muscle cells and is pharmacologically coupled to GTP-binding proteins. Neurokinin A TFA is associated with both the central and peripheral nervous systems and exhibits a broad tissue distribution pattern. [1]

Solubility Information

Solubility	DMSO: 80 mg/mL (64.14 mM),Sonication is recommended. H2O: 40 mg/mL (32.07 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 3.3 mg/mL (2.65 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8017 mL	4.0085 mL	8.0171 mL
5 mM	0.1603 mL	0.8017 mL	1.6034 mL
10 mM	0.0802 mL	0.4009 mL	0.8017 mL
50 mM	0.016 mL	0.0802 mL	0.1603 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

Gerard NP, et al. The human neurokinin A (substance K) receptor. Molecular cloning of the gene, chromosome localization, and isolation of cDNA from tracheal and gastric tissues. J Biol Chem. 1990 Nov 25;265(33):20455-62.

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