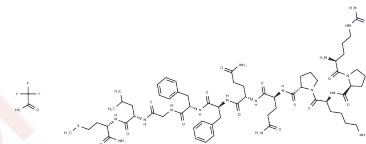


## Substance P TFA

## Chemical Properties

CAS No. :	148470-19-3
Formula:	C65H99F3N18O15S
Molecular Weight:	1461.67
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	Substance P TFA (Neurokinin P TFA) is a neuropeptide that functions as both a neurotransmitter and neuromodulator in the central nervous system, specifically targeting the neurokinin 1 receptor (NK1-receptor, NK1R).
Targets(IC50)	Others,Endogenous Metabolite,Neurokinin receptor
In vitro	The neuropeptide substance P (SP) is mediated by the NK1-R desensitize and resensitize, which may be associated with NK1-R endocytosis and recycling. SP and the NK1-R have internalized into the same clathrin immunoreactive vesicles and then sorted into different compartments. SP is intact at the cell surface and in early endosomes but slowly degraded in perinuclear vesicles. SP induces clathrin-dependent internalization of the NK1-R. The SP/NK1-R complex dissociates in acidified endosomes. SP induces the internalization of the NK1-R both in transfected epithelial cells [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6841 mL	3.4207 mL	6.8415 mL
5 mM	0.1368 mL	0.6841 mL	1.3683 mL
10 mM	0.0684 mL	0.3421 mL	0.6841 mL
50 mM	0.0137 mL	0.0684 mL	0.1368 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

Grady EF, et al. Delineation of the endocytic pathway of substance P and its seven-transmembrane domain NK1 receptor. Mol Biol Cell. 1995 May;6(5):509-24.

Zhang L, et al. MiR-34b/c-5p and the neurokinin-1 receptor regulate breast cancer cell proliferation and apoptosis. Cell Prolif. 2018 Oct 17:e12527.

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