

## Data Sheet (Cat.No.TP2155)

Substance P TFA

### Chemical Properties

CAS No.:	148470-19-3
Formula:	C63H98N18O13S.xC2HF3O2
Molecular Weight:	N/A
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	Substance P TFA (Neurokinin P TFA) is a neuropeptide, acting as a neurotransmitter and as a neuromodulator in the CNS, targeting the neurokinin 1 receptor (NK1-receptor, NK1R).
Targets(IC <sub>50</sub> )	Neurokinin 1 receptor: None
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].

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### 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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