

Data Sheet (Cat.No.T7675)

Substance P (1-7) 2TFA(68060-49-1(free base))

Chemical Properties

CAS No.:	T7675
Formula:	C45H67F6N13O14
Molecular Weight:	1128.08
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 (1-7) 2TFA(68060-49-1(free base)) is the major bioactive metabolite formed after proteolytic degradation of the tachykinin substance P (SP), with anti-inflammatory, anti-nociceptive and anti-hyperalgesic effects
In vivo	Substance P 1-7, SP(1-7), which is the main SP fragment in rat CNS, was injected intranigrally. SP(1-7) was found to act as a very potent antagonist against the SP-induced responses and was formed locally in the nigra after SP injection. It is proposed that SP(1-7) is an endogenous modulator of SP actions. Generation of peptide fragments, which retain receptor affinity but not efficacy, may be a general mechanism for autoregulation in peptidergic systems[1].

Solubility Information

Solubility	DMSO: 10 mM (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.886 mL	4.432 mL	8.865 mL
5 mM	0.177 mL	0.886 mL	1.773 mL
10 mM	0.089 mL	0.443 mL	0.886 mL
50 mM	0.018 mL	0.089 mL	0.177 mL

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

- Herrera-Marschitz M , Terenius L , Sakurada T , et al. The substance P(1-7) fragment is a potent modulator of substance P actions in the brain[J]. Brain Research, 1990, 521(1-2):316-320.
- Skogh A , Lesniak A , Gaugaz F Z , et al. Impact of N -methylation of the substance P 1-7 amide on anti-allodynic effect in mice after peripheral administration[J]. European Journal of Pharmaceutical Sciences, 2017, 109.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481