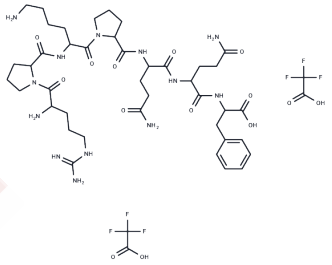
Data Sheet (Cat.No.T7675)

TargetMol

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

Chemical Properties



CAS No. :

Formula: C45H67F6N13O14

Molecular Weight: 1128.08

Storage: Keep away from moisture
Pure form: -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) 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
Targets(IC50)	Others
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,Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.8865 mL	4.4323 mL	8.8646 mL
5 mM	0.1773 mL	0.8865 mL	1.7729 mL
10 mM	0.0886 mL	0.4432 mL	0.8865 mL
50 mM	0.0177 mL	0.0886 mL	0.1773 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

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.