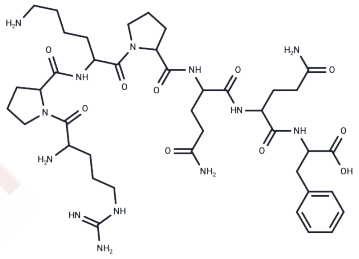
Data Sheet (Cat.No.T7396)

TargetMol

Substance P(1-7)

Chemical Properties



CAS No. : 68060-49-1

Formula: C41H65N13O10

Molecular Weight: 900.04

Storage: Keep away from moisture
Powder: -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) (Substance P 1-7) 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)	Neurokinin receptor
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].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.1111 mL	5.5553 mL	11.1106 mL
5 mM	0.2222 mL	1.1111 mL	2.2221 mL
10 mM	0.1111 mL	0.5555 mL	1.1111 mL
50 mM	0.0222 mL	0.1111 mL	0.2222 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481