

Substance P (1-9)

Chemical Properties

CAS No.:	57468-17-4
Formula:	C ₅₂ H ₇₇ N ₁₅ O ₁₂
Molecular Weight:	1104.26
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 (1-9) is nonapeptide, which decreases the inactivation of substance P by the guinea-pig ileum and urinary bladder. Substance P is responsible for a number of excitatory effects on both central and peripheral neurons.
In vitro	Substance P (1-9) is a nopeptide, which decreases the ictivation of substance P by the guinea-pig ileum and uriry bladder, but with no significant effects on bradykinin or SP-(6-11)[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.906 mL	4.528 mL	9.056 mL
5 mM	0.181 mL	0.906 mL	1.811 mL
10 mM	0.091 mL	0.453 mL	0.906 mL
50 mM	0.018 mL	0.091 mL	0.181 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

1. Growcott JW, et al. Effects of substance P-(1-9) nonapeptide amide on inactivation of substance P in vitro. Eur J Pharmacol. 1982 Oct 15;84(1-2):107-9.

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481