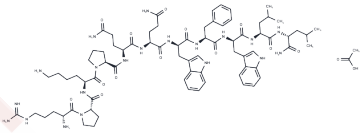
Data Sheet (Cat.No.T20413L)

TargetMol

Spantide acetate

Chemical Properties



CAS No. :

Formula: C77H112N20O15

Molecular Weight: 1557.84

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	Spantide acetate is a selective antagonist of NK1 receptor with Kis of 230 nM and 8150 nM for NK1 and NK2.
Targets(IC50)	Neurokinin receptor
In vivo	In examined animals, Spantide acetate (50 nM and 100 nM) all causes a complete respiratory arrest[1]. In female C57BL/6 and BALB/c mice, Spantide acetate (36 μg; i.p.) significantly decreases the number of bacterial counts, perforated corneas, and PMNs. Spantide acetate downregulates the mRNA levels for type I cytokines IFN-γ, IL-6, TNF-α, MIP-2, and IL-1β[2].

Solubility Information

Solubility	DMSO: 15.58 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6419 mL	3.2096 mL	6.4191 mL
5 mM	0.1284 mL	0.6419 mL	1.2838 mL
10 mM	0.0642 mL	0.321 mL	0.6419 mL
50 mM	0.0128 mL	0.0642 mL	0.1284 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

M Zubrzycka, et al. Comparison of antagonistic properties of substance P analogs, spantide I, II and III, on evoked tongue jerks in rats. Endocr Regul. 2000 Mar;34(1):13-8.

Linda D Hazlett, et al. Spantide I decreases type I cytokines, enhances IL-10, and reduces corneal perforation in susceptible mice after Pseudomonas aeruginosa infection. Invest Ophthalmol Vis Sci. 2007 Feb;48(2):797-807.

J C Beaujouan, et al. Higher potency of RP 67580, in the mouse and the rat compared with other nonpeptide and peptide tachykinin NK1 antagonists. Br J Pharmacol. 1993 Mar;108(3):793-800.

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