

[Sar9,Met(O2)11]-Substance P acetate

Chemical Properties

CAS No. :

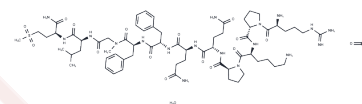
Formula: C66H106N18O18S

Molecular Weight: 1471.75

Keep away from moisture

Storage: 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	[Sar9,Met(O2)11]-Substance P acetate is a tachykinin NK1 receptor selective agonist. [Sar9,Met(O2)11]-Substance P acetate is a selective tachykinin NK1 receptor agonist. [Sar9,Met(O2)11]-Substance P acetate and septide (10–100 pmol per rat, i.c.v.) are equipotent in increasing mean arterial blood pressure (MAP) and heart rate (HR), yet they have dissimilar time-course. Both agonists increase dose-dependently face washing and sniffing while [Sar9,Met(O2)11]-Substance P acetate is the sole to produce grooming.
Targets(IC50)	Neurokinin receptor
In vitro	[Sar9,Met(O2)11]-Substance P and septide (10-100?pmol per rat, i.c.v.) are equipotent in increasing mean arterial blood pressure (MAP) and heart rate (HR), yet they have dissimilar time-course. Both agonists increase dose-dependently face washing and sniffing while [Sar9,Met(O2)11]-Substance P is the sole to produce grooming[1].

Solubility Information

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

	1mg	5mg	10mg
1 mM	0.6795 mL	3.3973 mL	6.7946 mL
5 mM	0.1359 mL	0.6795 mL	1.3589 mL
10 mM	0.0679 mL	0.3397 mL	0.6795 mL
50 mM	0.0136 mL	0.0679 mL	0.1359 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

Cellier E, et al. Characterization of central and peripheral effects of septide with the use of five tachykinin NK1 receptor antagonists in the rat. Br J Pharmacol. 1999 Jun;127(3):717-28.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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