

Substance P acetate

Chemical Properties

CAS No. :

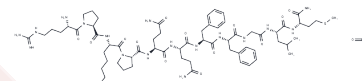
Formula: C₆₅H₁₀₂N₁₈O₁₅S

Molecular Weight: 1407.68

Storage: Keep away from moisture, Store at low temperature

Store at -20°C

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Substance P acetate is a peptide mainly secreted by neurons and is involved in many biological processes including nociception and inflammation. Substance P acetate is a neuroinflammatory factor that can act as a neurotransmitter and neuromodulator in the central nervous system and can be used to study cardiovascular and neurological diseases.
Targets(IC50)	Others
In vitro	Desensitization and resensitization of Substance P (SP) mediated by the neurokinin 1 receptor (NK1-R) may be related to endocytosis and recycling of NK1-R. SP is intact at the cell surface and in early nuclear endosomes but is slowly degraded in perinuclear vesicles. substance P acetate induces lattice protein-dependent internalization of the NK1-R. SP/ NK1-R complex dissociates in acidified nuclear endosomes, SP is degraded, and NK1-R is recycled to the cell surface. Substance P acetate induces internalization of NK1-R in transfected epithelial cells. [1]

Solubility Information

Solubility	DMSO: 50 mg/mL (35.52 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	0.7104 mL	3.5519 mL	7.1039 mL
5 mM	0.1421 mL	0.7104 mL	1.4208 mL
10 mM	0.071 mL	0.3552 mL	0.7104 mL
50 mM	0.0142 mL	0.071 mL	0.1421 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

Grady EF, et al. Delineation of the endocytic pathway of substance P and its seven-transmembrane domain NK1 receptor. *Mol Biol Cell*. 1995 May;6(5):509-24.

Zhang L, et al. MiR-34b/c-5p and the neurokinin-1 receptor regulate breast cancer cell proliferation and apoptosis. *Cell Prolif*. 2019 Jan;52(1):e12527.

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