

[D-Arg1,D-Phe5,D-Trp7,9,Leu11]-Substance P acetate

Chemical Properties

CAS No. :

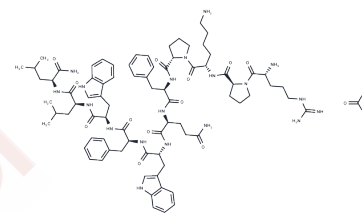
Formula: C81H113N19O14

Molecular Weight: 1576.91

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	[D-Arg1,D-Phe5,D-Trp7,9,Leu11]-Substance P acetate ([D-Arg1,D-Phe5,D-Trp7,9,Leu11]-Substance P acetate (96736-12-8 free base)) is a broad spectrum neuropeptide inverse agonist and antagonist. Potent full inverse agonist for the ghrelin receptor (EC50 = 5.2 nM); diminishes constitutive ghrelin receptor signaling. Also antagonist at tachykinin, bradykinin, CCK and bombesin receptors. Induces apoptosis and inhibits cancer cell growth in vitro.
Targets(IC50)	Cholecystokinin Receptor

Solubility Information

Solubility	DMSO: 2.5 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	0.6342 mL	3.1708 mL	6.3415 mL
5 mM	0.1268 mL	0.6342 mL	1.2683 mL
10 mM	0.0634 mL	0.3171 mL	0.6342 mL
50 mM	0.0127 mL	0.0634 mL	0.1268 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

Holst et al (2003) High constitutive signaling of the ghrelin receptor - identification of a potent inverse agonist. Mol.Endocrinol. 17 2201 PMID:

Jarpe et al (1998) [D-Arg1, D-Phe5, D-Trp7,9, Leu11] Substance P acts as a biased agonist toward neuropeptide and chemokine receptors. J.Biol.Chem. 273 3097 PMID:

Reeve and Bleehen (1994) [D-Arg1, D-Phe5, D-Trp7,9, Leu11] Substance P induces apoptosis in lung cancer cells in vitro. Biochem.Biophys.Res.Communic. 199 1313 PMID:

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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