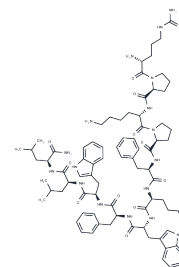


[D-Arg1,D-Phe5,D-Trp7,9,Leu11]-Substance P

Chemical Properties

CAS No. :	96736-12-8
Formula:	C79H109N19O12
Molecular Weight:	1516.85
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	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)	Bombesin Receptor, Interleukin, JNK

Solubility Information

Solubility	H2O: 1 mg/mL (0.66 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	0.6593 mL	3.2963 mL	6.5926 mL
5 mM	0.1319 mL	0.6593 mL	1.3185 mL
10 mM	0.0659 mL	0.3296 mL	0.6593 mL
50 mM	0.0132 mL	0.0659 mL	0.1319 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.Comm. 199 1313 PMID:

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