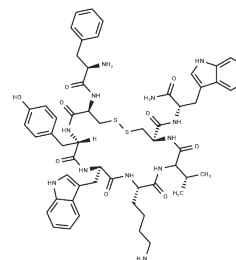


Vapreotide

Chemical Properties

CAS No. :	103222-11-3
Formula:	C57H70N12O9S2
Molecular Weight:	1131.38
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	Vapreotide is an antagonist of the neurokinin-1 (NK1) receptor (IC50: 330 nM).
Targets(IC50)	Others, Neurokinin receptor
In vitro	In a concentration-dependent manner, Vapreotide attenuates the effect of SP on calcium release. The concentration required for Vapreotide to completely inhibit the effect of SP is about 100 times higher than that required for the NK1R antagonist aprepitant. The effect of Vapreotide on cell proliferation is mediated primarily by SSTR2. In order to further establish the NK1R antagonist effect of Vapreotide, U373MG cells are pretreated with SSTR2 selective antagonist CYN followed by incubation with Vapreotide and SP stimulation. The results show that pretreatment with CYN does not reverse the inhibitory effect of Vapreotide on SP-stimulated IL-8 mRNA expression. As compared to control MDM, limited HIV gag mRNA expression may indicate that Vapreotide can reduce HIV-1 replication in MDM. In addition, SP treatment (10 μM) reversed the inhibitory effect of pentopropfen on HIV-1 replication in MDM. This observation indicates that the inhibitory effect of Vapreotide on HIV-1 replication is most likely due to its interaction with NK1R.

Solubility Information

Solubility	H2O: 60 mg/mL (53.03 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	0.8839 mL	4.4194 mL	8.8388 mL
5 mM	0.1768 mL	0.8839 mL	1.7678 mL
10 mM	0.0884 mL	0.4419 mL	0.8839 mL
50 mM	0.0177 mL	0.0884 mL	0.1768 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

Spitsin S et al. Analog of somatostatin vapreotide exhibits biological effects in vitro via interaction with neurokinin-1 receptor. *Neuroimmunomodulation*. 2013;20(5):247-55.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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