

Cortistatin-14

Chemical Properties

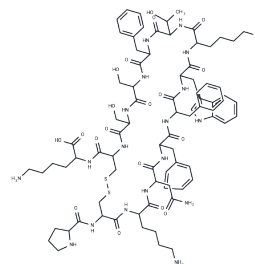
CAS No. : 186901-48-4

Formula: C81H114N20O18S2

Molecular Weight: 1720.03

Storage: Keep away from moisture, Store at low temperature
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	Cortistatin-14, a neuropeptide structurally similar to growth inhibitor-14, has anticonvulsant and neuroprotective effects and impairs recognition memory consolidation in mice through activation of sst(2), growth hormone-releasing peptide, and GABA(A/B) receptor, which can be used to study sepsis-induced cognitive impairment.
Targets(IC50)	Somatostatin

Solubility Information

Solubility	H2O: 80 mg/mL (46.51 mM), Sonification 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	0.5814 mL	2.9069 mL	5.8139 mL
5 mM	0.1163 mL	0.5814 mL	1.1628 mL
10 mM	0.0581 mL	0.2907 mL	0.5814 mL
50 mM	0.0116 mL	0.0581 mL	0.1163 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

De Lecea L, et al. A cortical neuropeptide with neuronal depressant and sleep-modulating properties. *Nature*. 1996 May 16;381(6579):242-5.

Baranowska B, et al. Cortistatin and pituitary hormone secretion in rat. *J Physiol Pharmacol*. 2009 Mar;60(1):151-6.

Braun H, et al. Protective effects of cortistatin (CST-14) against kainate-induced neurotoxicity in rat brain. *Brain Res*. 1998 Aug 24;803(1-2):54-60.

Markovics A, et al. Comparison of the anti-inflammatory and anti-nociceptive effects of cortistatin-14 and somatostatin-14 in distinct in vitro and in vivo model systems. *J Mol Neurosci*. 2012 Jan;46(1):40-50.

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