

Cortistatin-14 acetate

Chemical Properties

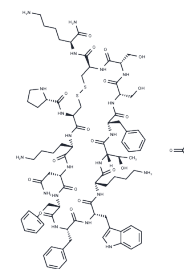
CAS No. :

Formula: C83H118N20O20S2

Molecular Weight: 1780.08

Storage: Store at low temperature, Keep away from moisture
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 acetate, a neuropeptide have structural similarity to somatostatin-14, binds and exerts its function via the somatostatin receptors (sst1-sst5). Cortistatin-14 acetate shows anticonvulsive, neuroprotective effect and remarkable anti-inflammatory properties
Targets(IC50)	Somatostatin

Solubility Information

Solubility	H2O: 125 mg/mL (70.22 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5618 mL	2.8089 mL	5.6177 mL
5 mM	0.1124 mL	0.5618 mL	1.1235 mL
10 mM	0.0562 mL	0.2809 mL	0.5618 mL
50 mM	0.0112 mL	0.0562 mL	0.1124 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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