

CS-003 Free base

Chemical Properties

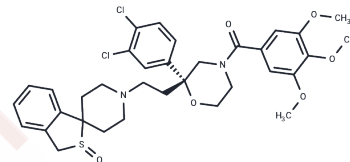
CAS No. : 191672-52-3

Formula: C₃₄H₃₈Cl₂N₂O₆S

Molecular Weight: 673.65

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	CS-003 free base (CS-003) is a triple tachykinin receptor antagonist with high affinity for human (neurokinin) NK1, NK2 and NK3 receptors, with K _i values of 2.3 nM and 0.54 nM, respectively And 0.74 nM. CS-003 free base (CS-003) has therapeutic effects on neurokinin-related respiratory diseases.
Targets(IC50)	Neurokinin receptor
In vitro	CS-003 (0.01-10 μM; 24 hours) inhibits inositol phosphate formation induced by NK1, NK2, or NK3 in a concentration-dependent manner, with pA ₂ values of 8.7, 9.4, and 9.5 μM, respectively.
In vivo	CS-003 (intravenous injection; 0.01-3.0 mg/kg; neurokinin A/B/C 5 minutes before injection) inhibits substance P-induced increases in tracheal vascular permeability and neurokinin A and B-induced bronchial contraction, with ID ₅₀ values of 0.13, 0.040, and 0.063 mg/kg, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4845 mL	7.4223 mL	14.8445 mL
5 mM	0.2969 mL	1.4845 mL	2.9689 mL
10 mM	0.1484 mL	0.7422 mL	1.4845 mL
50 mM	0.0297 mL	0.1484 mL	0.2969 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

Tsuchida H, et al. Novel triple neurokinin receptor antagonist CS-003 strongly inhibits neurokinin related responses. Eur J Pharmacol. 2008 May 31;586(1-3):306-12.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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