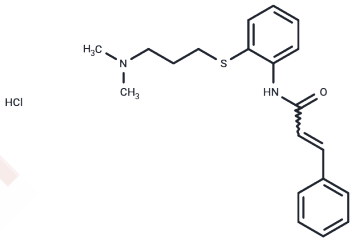
Data Sheet (Cat.No.T14968)

TargetMol

Cinanserin hydrochloride

Chemical Properties



CAS No. : 54-84-2

Formula: C20H25ClN2OS

Molecular Weight: 376.94

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Cinanserin hydrochloride (SQ 10643), a high-affinity antagonist of the 5-HT2 receptor (Ki: 41 nM), is also a 3C-like protease inhibitor of severe acute respiratory syndrome coronavirus.
Targets(IC50)	5-HT Receptor,Influenza Virus
In vitro	Cinanserin and Cinanserin hydrochloride inhibit the catalytic activity of SARS-CoV 3CLpro and HCoV-229E 3CLpro (IC50: 4.68 μM and 5.68 μM). Cinanserin/Cinanserin hydrochloride has a binding affinity to SARS-CoV 3CLpro, HCoV-229E 3CLpro, with the KD values of 49.4 μM/78.0 μM for SARS-associated coronavirus (SARS-CoV) 3CLpro[1].
In vivo	Cinanserin (5 mg/kg; intravenous injection; 2 hours; male Wistar rats) treatment significantly reduces systemic burn edema to shamburn levels[2].

Solubility Information

Solubility	DMSO: 125 mg/mL (331.62 mM),Sonication is recommended. H2O: 100 mg/mL (265.29 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6529 mL	13.2647 mL	26.5294 mL
5 mM	0.5306 mL	2.6529 mL	5.3059 mL
10 mM	0.2653 mL	1.3265 mL	2.6529 mL
50 mM	0.0531 mL	0.2653 mL	0.5306 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.

Reference

Chen L, et al. Cinanserin is an inhibitor of the 3C-like proteinase of severe acute respiratory syndrome coronavirus and strongly reduces virus replication in vitro. J Virol. 2005 Jun;79(11):7095-103.
Hernekamp JF, et al. Cinanserin reduces plasma extravasation after burn plasma transfer in rats. Burns. 2013 Sep; 39(6):1226-33.
Leysen JE, et al. Receptor binding profile of R 41 468, a novel antagonist at 5-HT2 receptors. Life Sci. 1981 Mar 2;28 (9):1015-22.

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