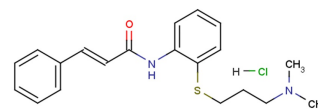


## Cinanserin hydrochloride

## Chemical Properties

CAS No.:	54-84-2
Formula:	C <sub>20</sub> H <sub>25</sub> CIN <sub>2</sub> OS
Molecular Weight:	376.94
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	Cinanserin hydrochloride is a selective and highly affinity 5-HT <sub>2</sub> receptor antagonist (K <sub>i</sub> : 41 nM). It has a much higher binding affinity for the 5-HT <sub>2</sub> than for the 5-HT <sub>1</sub> (K <sub>i</sub> : 3500 nM). Cinanserin is also an inhibitor of a 3C-like proteinase of severe acute respiratory syndrome coronavirus.
Targets(IC <sub>50</sub> )	5-HT <sub>2</sub> Receptor: 41 nM (K <sub>i</sub> ) 3C-like proteinase: None
In vitro	Cinanserin hydrochloride inhibits the catalytic activity of SARS-CoV 3CLpro (IC <sub>50</sub> : 5.05 μM) and HCoV-229E 3CLpro (IC <sub>50</sub> : 5.68 μM). None of the compounds have inhibitory activity against HRV-14 3Cpro at concentrations up to 200 μM. Cinanserin/Cinanserin hydrochloride have binding affinity to SARS-CoV 3CLpro, HCoV-229E 3CLpro, with the K <sub>D</sub> values of 49.4 μM/78.0 μM for SARS-associated coronavirus (SARS-CoV) 3CLpro and 18.2 μM/36.6 μM for human coronavirus 229E (HCoV-229E) 3CLpro [1].
In vivo	Leukocyte-endothelial interactions are significantly reduced by the administration of Cinanserin. Cinanserin (5 mg/kg; i.v; for 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) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.653 mL	13.265 mL	26.529 mL
5 mM	0.531 mL	2.653 mL	5.306 mL
10 mM	0.265 mL	1.326 mL	2.653 mL
50 mM	0.053 mL	0.265 mL	0.531 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.
2. Hernekamp JF, et al. Cinanserin reduces plasma extravasation after burn plasma transfer in rats. Burns. 2013 Sep;39(6):1226-33.
3. Leysen JE, et al. Receptor binding profile of R 41 468, a novel antagonist at 5-HT<sub>2</sub> receptors. Life Sci. 1981 Mar 2;28(9):1015-22.

**Inhibitors · Natural Compounds · Compound Libraries**

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