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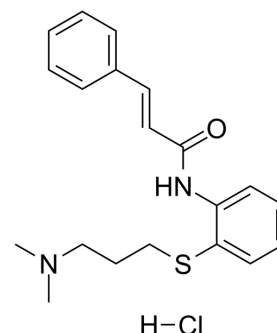
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Cinanserin hydrochloride

Cat. No.:	HY-100943
CAS No.:	54-84-2
Molecular Formula:	C ₂₀ H ₂₅ ClN ₂ OS
Molecular Weight:	377
Target:	5-HT Receptor; Influenza Virus
Pathway:	GPCR/G Protein; Neuronal Signaling; Anti-infection
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (331.56 mM; Need ultrasonic) H ₂ O : 100 mg/mL (265.25 mM; Need ultrasonic)				
	Preparing Stock Solutions	Mass	1 mg	5 mg	10 mg
		Solvent			
		Concentration			
		1 mM	2.6525 mL	13.2626 mL	26.5252 mL
In Vivo		5 mM	0.5305 mL	2.6525 mL	5.3050 mL
		10 mM	0.2653 mL	1.3263 mL	2.6525 mL
		Please refer to the solubility information to select the appropriate solvent.			
		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution			
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution			
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.52 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	Cinanserin hydrochloride (SQ 10643) is a potent, selective and highly affinity 5-HT ₂ receptor antagonist with a K _i of 41 nM. Cinanserin hydrochloride has a much higher binding affinity for the 5-HT ₂ than for the 5-HT ₁ receptor (K _i of 3500 nM). Cinanserin is also an inhibitor of 3C-like proteinase of severe acute respiratory syndrome coronavirus and strongly reduces virus replication in vitro ^{[1][2][3]} .	
IC ₅₀ & Target	5-HT ₂ Receptor 41 nM (K _i)	3C-like proteinase

In Vitro	Cinanserin/Cinanserin hydrochloride have binding affinity to SARS-CoV 3CL^{Pro}, HCoV-229E 3CL^{Pro}, with the K_D values of 49.4 μM/78.0 μM for SARS-associated coronavirus (SARS-CoV) 3CL^{Pro} and 18.2 μM/36.6 μM for human coronavirus 229E (HCoV-229E) 3CL^{Pro}[1]. The IC₅₀ values of Cinanserin and Cinanserin hydrochloride for inhibiting the catalytic activity of SARS-CoV 3CL^{Pro} are calculated as 4.92 μM and 5.05 μM, respectively, The corresponding IC₅₀ values for HCoV-229E 3CL^{Pro} are 4.68 μM and 5.68 μM. None of the compounds have inhibitory activity against HRV-14 3C^{Pro} at concentrations up to 200 μM^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.								
In Vivo	Cinanserin (5 mg/kg; intravenous injection; for 2 hours; male Wistar rats) treatment significantly reduces systemic burn edema to shamburn levels. Leukocyte-endothelial interactions are significantly reduced by administration of Cinanserin^[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. <table border="1" data-bbox="345 516 1515 751"> <tr> <td>Animal Model:</td><td>Male Wistar rats (250 g) underwent thermal injury^[2]</td></tr> <tr> <td>Dosage:</td><td>5 mg/kg</td></tr> <tr> <td>Administration:</td><td>Intravenous injection; for 2 hours</td></tr> <tr> <td>Result:</td><td>Significantly reduced systemic burn edema to shamburn levels..</td></tr> </table>	Animal Model:	Male Wistar rats (250 g) underwent thermal injury ^[2]	Dosage:	5 mg/kg	Administration:	Intravenous injection; for 2 hours	Result:	Significantly reduced systemic burn edema to shamburn levels..
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Result:	Significantly reduced systemic burn edema to shamburn levels..								

CUSTOMER VALIDATION

- Sci Rep. 2022 Jul 16;12(1):12197.

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REFERENCES

- [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-HT₂ receptors. Life Sci. 1981 Mar 2;28(9):1015-22.

Caution: Product has not been fully validated for medical applications. For research use only.

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