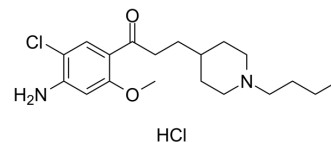


RS 67333 hydrochloride

Cat. No.:	HY-101341
CAS No.:	168986-60-5
Molecular Formula:	C ₁₉ H ₃₀ Cl ₂ N ₂ O ₂
Molecular Weight:	389.36
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
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 : 50 mg/mL (128.42 mM; Need ultrasonic)																	
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th rowspan="2">Mass</th> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td>1 mM</td> <td>2.5683 mL</td> <td>12.8416 mL</td> <td>25.6832 mL</td> </tr> <tr> <td>5 mM</td> <td>0.5137 mL</td> <td>2.5683 mL</td> <td>5.1366 mL</td> </tr> <tr> <td>10 mM</td> <td>0.2568 mL</td> <td>1.2842 mL</td> <td>2.5683 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass	1 mg	5 mg	10 mg	1 mM	2.5683 mL	12.8416 mL	25.6832 mL	5 mM	0.5137 mL	2.5683 mL	5.1366 mL	10 mM	0.2568 mL	1.2842 mL	2.5683 mL
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	Please refer to the solubility information to select the appropriate solvent.																	
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.42 mM); Clear solution 																	

BIOLOGICAL ACTIVITY

Description	RS 67333 hydrochloride is a potent and selective 5-HT ₄ receptor (5-HT ₄ R) partial agonist with a pK _i of 8.7 in guinea-pig striatum. RS 67333 hydrochloride exhibits lower affinities at several other receptors including 5-HT _{1A} , 5-HT _{1D} , 5-HT _{2A} , 5-HT _{2C} , dopamine D ₁ , D ₂ and muscarinic M ₁ -M ₃ receptors. RS 67333 hydrochloride has neuroprotective effects, and can be used for Alzheimer's disease research ^[1] .
IC₅₀ & Target	5-HT ₄ Receptor 8.7 (pK _i)
In Vitro	RS 67333 hydrochloride does exhibit affinities for the sigma 1 (pK _i = 8.9) and sigma 2 (pK _i = 8.0) binding sites. At the 5-HT ₄

receptor mediating relaxation of the carbachol-precontracted oesophagus, RS 67333 hydrochloride acts as a potent (pEC_{50} of 8.4), partial agonists (intrinsic activities, with respect to 5-HT is 0.5) with respect to 5-HT^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. R M Eglon, et al. Pharmacological characterization of two novel and potent 5-HT₄ receptor agonists, RS 67333 and RS 67506, in vitro and in vivo. Br J Pharmacol. 1995 Aug;115(8):1387-92.

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

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