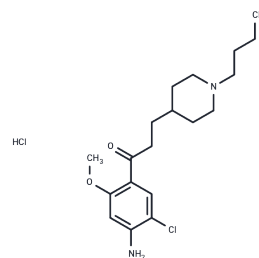


RS 67333 hydrochloride

Chemical Properties

CAS No. :	168986-60-5
Formula:	C19H30Cl2N2O2
Molecular Weight:	389.36
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	RS 67333 hydrochloride (R05203648) is a potent, selective partial agonist of the 5-HT ₄ receptor (5-HT ₄ R) with a pK _i value of 8.7 in guinea-pig striatum. It demonstrates lower binding affinities for other receptors, including 5-HT _{1A} , 5-HT _{1D} , 5-HT _{2A} , 5-HT _{2C} , dopamine D ₁ and D ₂ , and muscarinic M ₁ -M ₃ receptors. Notably, RS 67333 hydrochloride exhibits neuroprotective properties, rendering it useful in Alzheimer's disease research.
Targets(IC ₅₀)	5-HT Receptor
In vitro	RS 67333 hydrochloride exhibits 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].

Solubility Information

Solubility	H ₂ O: 9 mg/mL (23.11 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (5.14 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0514 mL	0.2568 mL	0.5137 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

R M Eglen, 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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