# Data Sheet (Cat.No.T23265)



## RS 67333 hydrochloride

## **Chemical Properties**

CAS No.: 168986-60-5

Formula: C19H30Cl2N2O2

Molecular Weight: 389.36

Appearance: no data available

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

## **Biological Description**

Description	RS 67333 hydrochloride (RO5203648) is a potent, selective partial agonist of the 5-HT4 receptor (5-HT4R) with a pKi value of 8.7 in guinea-pig striatum. It demonstrates lower binding affinities for other receptors, including 5-HT1A, 5-HT1D, 5-HT2A, 5-HT2C, dopamine D1 and D2, and muscarinic M1-M3 receptors. Notably, RS 67333 hydrochloride exhibits neuroprotective properties, rendering it useful in Alzheimer's disease research.
Targets(IC50)	5-HT Receptor
In vitro	RS 67333 hydrochloride exhibits affinities for the sigma 1 (pKi = 8.9) and sigma 2 (pKi = 8.0) binding sites. At the 5-HT4 receptor mediating relaxation of the carbachol-precontracted oesophagus, RS 67333 hydrochloride acts as a potent (pEC50 of 8.4), partial agonists (intrinsic activities, with respect to 5-HT is 0.5) with respect to 5-HT [1].

## **Solubility Information**

Solubility	H2O: 9mg/ml (23.1mM),	À
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

## **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.

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#### 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.



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