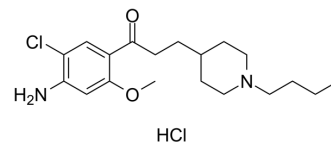


RS 67333 hydrochloride

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:	Please store the product under the recommended conditions in the Certificate of Analysis.



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 Eglén, 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.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA