Data Sheet (Cat.No.T37293)

TargetMol

CMPI hydrochloride

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

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	Potent positive allosteric modulator of α4β2 nAChRs (EC50 values are 20 and 18 nM for rat and human, respectively). Selective for hα4β2 over hα3β2, hα3β4 and hα7. Inhibits (α4)2(β2)3, muscle-type and Torpedo nAChRs (IC50 values are 0.5, 0.7 and 0.2 μM, respectively), but not (α4)3(β2)2 receptors. Exhibits ability to photoincorporate into aliphatic and nucleophilic amino acid side chains.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)

Reference

Hamouda (2016) Photolabeling a nicotinic acetylcholine receptor (nAChR) with an (α4)3(β2)2 nAChR-selective positive allosteric modulator. Mol.Pharmacol. 89 575 PMID:26976945

Albrecht et al (2008) Discovery and optimization of substituted piperidines as potent, selective, CNS-penetrant α4β2 nicotinic acetylcholine receptor potentiators. Bioorg.Med.Chem.Lett. 18 5209 PMID:18789861

Wang et al (2017) Unraveling amino acid residues critical for allosteric potentiation of (α4)3(β2)2-type nicotinic acetylcholine receptor responses. J.Biol.Chem. 292 9988 PMID:28446611

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