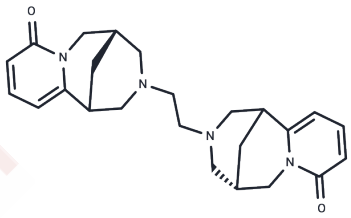
Data Sheet (Cat.No.T37202)

TargetMol

CC4

Chemical Properties



CAS No. : 492-02-4

Formula: C24H30N4O2

Molecular Weight: 406.52

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	High affinity and subtype selective α6β2 and α4β2 partial agonist (Ki values are 12 and 26nM for rat α6β2 and α4β2 receptors respectively). Has low affinity for α3β4 and α7 receptors (Ki values are 4.8 and 13 μM for human α3β4 and rat α7 receptors respectively). Stimulates dopamine release from striatal slices in vitro. Attenuates nicotine-induced self-administration and conditional place preference in rats.
Targets(IC50)	Others,AChR

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4599 mL	12.2995 mL	24.599 mL
5 mM	0.492 mL	2.4599 mL	4.9198 mL
10 mM	0.246 mL	1.230 mL	2.4599 mL
50 mM	0.0492 mL	0.246 mL	0.492 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

Sala et al (2013) CC4, a dimer of cytisine, is a selective partial agonist at α4β2/α6β2 nAChR with improved selectivity for tobacco smoking c Br.J.Pharmacol. 168 835 PMID:22957729

Riganti et al (2005) Long-term exposure to the new nicotinic antagonist 1,2-bisN-cytisinylethane upregulates nicotinic receptor subtypes of SH-SY5Y human neuroblastoma cells. Br.J.Pharmacol. 146 1096 PMID:16273122

Carbonnelle et al (2003) Nitrogen substitution modifies the activity of cytisine on neuronal nicotinic receptor subtypes. Eur.J.Pharmacol. 471 85 PMID:12818695

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