

YQA14

Chemical Properties

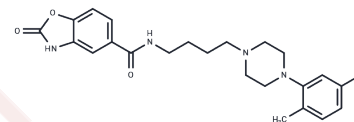
CAS No. : 1221408-42-9

Formula: C₂₃H₂₇ClN₄O₃

Molecular Weight: 442.94

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	YQA14 is a selective, high-affinity dopamine D3 receptor antagonist that inhibits cocaine self-administration in rats and mice, applicable for opioid addiction research.
Targets(IC50)	Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2576 mL	11.2882 mL	22.5764 mL
5 mM	0.4515 mL	2.2576 mL	4.5153 mL
10 mM	0.2258 mL	1.1288 mL	2.2576 mL
50 mM	0.0452 mL	0.2258 mL	0.4515 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

- Sun L, et al. A selective D3 receptor antagonist YQA14 attenuates methamphetamine-induced behavioral sensitization and conditioned place preference in mice. *Acta Pharmacol Sin.* 2016 Feb;37(2):157-65.
- Liu F, Wang X, Li Z, Li J, Zhuang X, Zhang Z. P-Glycoprotein (ABCB1) limits the brain distribution of YQA-14, a novel dopamine D3 receptor antagonist. *Chem Pharm Bull (Tokyo).* 2015;63(7):512-8.
- Chen Y, et al. A novel dopamine D3 receptor antagonist YQA14 inhibits methamphetamine self-administration and relapse to drug-seeking behaviour in rats. *Eur J Pharmacol.* 2014 Nov 15;743:126-32.
- Liu F, et al. Characterization of preclinical in vitro and in vivo ADME properties and prediction of human PK using a physiologically based pharmacokinetic model for YQA-14, a new dopamine D3 receptor antagonist candidate for treatment of drug addiction. *Biopharm Drug Dispos.* 2014 Jul;35(5):296-307.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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