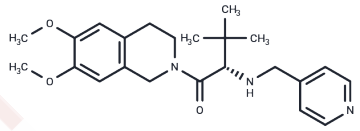
Data Sheet (Cat.No.T4965)

TargetMol

TCS-OX2-29

Chemical Properties



CAS No. : 372523-75-6

Formula: C23H31N3O3

Molecular Weight: 397.51

Appearance: no data available

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

Biological Description

Description	TCS-OX2-29 is a potent and selective OX2 receptor antagonist (IC50: 40 nM). It displays >250-fold selectivity for OX2 over OX1.
Targets(IC50)	OX Receptor
In vitro	TCS-OX2-29 shows selectivity for ion channels, and transporters (<30% inhibition at 10 μM), which includes G-protein coupled receptors associated with food intake including galanin and neuropeptide Y[1]. TCS-OX2-29 Inhibits orexin A-induced IP3 accumulation and ERK1/2 phosphorylation in CHO cells transfected with the OX2 receptor[2].

Solubility Information

Solubility	DMSO: 9 mg/mL (22.64 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5157 mL	12.5783 mL	25.1566 mL
5 mM	0.5031 mL	2.5157 mL	5.0313 mL
10 mM	0.2516 mL	1.2578 mL	2.5157 mL
50 mM	0.0503 mL	0.2516 mL	0.5031 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.

Reference

Hirose M et al. N-acyl 6,7-dimethoxy-1,2,3,4-tetrahydroisoquinoline: the first orexin-2 receptor selective non-peptidicantagonist. Bioorg Med Chem Lett, 2003 Dec 15, 13(24):4497-9.

R Mould et al. Binding kinetics differentiates functional antagonism of orexin-2 receptor ligands. Br J Pharmacol. 2014 Jan; 171(2): 351-363.

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