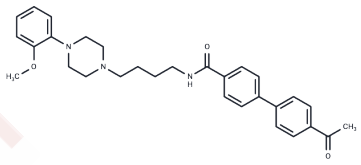
Data Sheet (Cat.No.T11463)

TargetMol

GR 103691

Chemical Properties



CAS No. : 162408-66-4

Formula: C30H35N3O3

Molecular Weight: 485.62

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	GR 103691, a potent and selective dopamine D3 receptor antagonist (Ki: 0.4 nM), exhibits more than 100-fold selectivity for human dopamine D3 receptors over human D4 and D1 sites.
Targets(IC50)	Dopamine Receptor
In vitro	GR 103691 shows a marked affinity for α-1 adrenoceptors (Ki: 12.6 nM) and serotonin1A (5-HT1A) receptors (Ki: 5.8 nM).

Solubility Information

Solubility	DMSO: 4.86 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0592 mL	10.2961 mL	20.5922 mL
5 mM	0.4118 mL	2.0592 mL	4.1184 mL
10 mM	0.2059 mL	1.0296 mL	2.0592 mL
50 mM	0.0412 mL	0.2059 mL	0.4118 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

Audinot V, et al. A comparative in vitro and in vivo pharmacological characterization of the novel dopamine D3 receptor antagonists (+)-S 14297, nafadotride, GR 103,691 and U 99194. J Pharmacol Exp Ther. 1998 Oct;287(1): 187-97.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481