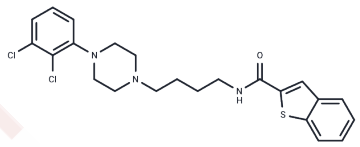
Data Sheet (Cat.No.T21667)

TargetMol

FAUC-365

Chemical Properties



CAS No. : 474432-66-1

Formula: C23H25Cl2N3OS

Molecular Weight: 462.44

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	FAUC-365 is a D3 dopamine receptor agonist.
Targets(IC50)	Dopamine Receptor
In vitro	As a dichloro derivative, FAUC-365 revealed D3 affinities that were comparable to its methoxy-substituted analogs, however, the selectivities of FAUC-365 against 5HT-1A, 5-HT2, and R1 were substantially higher, which was demonstrated by the extraordinary selectivity ratios of 17600, 7200, 5200, and 680 over D1, D2long, D2short, and D4, respectively, were determined for FAUC-365 with Ki of 0.50 nM. In addition, the benzothiophene analog FAUC 346 and its oxa analog showed partial agonist character with EC50 values at 0.36 and 1.5 nM, respectively [1].

Solubility Information

Solubility	H2O: insoluble DMSO: 50 mg/mL (108.12 mM),Sonication is recommended. EtOH: insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (4.32 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1624 mL	10.8122 mL	21.6244 mL
5 mM	0.4325 mL	2.1624 mL	4.3249 mL
10 mM	0.2162 mL	1.0812 mL	2.1624 mL
50 mM	0.0432 mL	0.2162 mL	0.4325 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

Bettinetti L, Schlotter K, Hübner H, Gmeiner P. Interactive SAR studies:rational discovery of super-potent and highly selective dopamine D3 receptor antagonists and partial agonists. J Med Chem. 2002 Oct 10;45(21):4594-7.