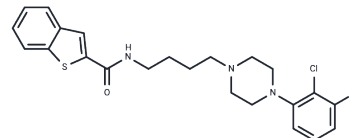


FAUC-365

Chemical Properties

CAS No. : 474432-66-1
Formula: C₂₃H₂₅Cl₂N₃O₃
Molecular Weight: 462.44
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



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 K _i of 0.50 nM. In addition, the benzothiophene analog FAUC 346 and its oxa analog showed partial agonist character with EC ₅₀ values at 0.36 and 1.5 nM, respectively [1].

Solubility Information

Solubility	H ₂ O: insoluble DMSO: 50 mg/mL (108.12 mM) EtOH: insoluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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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.

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.

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