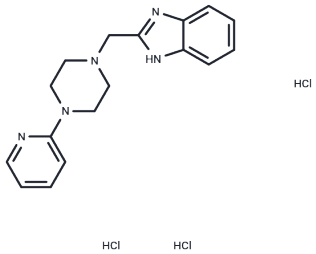
Data Sheet (Cat.No.T22019)

TargetMol
YOUR TARGET MOLECULES

ABT 724 trihydrochloride

Chemical Properties



CAS No. : 587870-77-7

Formula: C17H22Cl3N5

Molecular Weight: 402.75

Appearance: no data available

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

Biological Description

Description	ABT 724 trihydrochloride is an effective and selective agonist of the D4 receptor (EC50 = 12.4 nM, 14.3 nM, and 23.2 nM for human, rat and ferret, respectively). ABT-724 trihydrochloride can be used in erectile dysfunction studies.
Targets(IC50)	Dopamine Receptor
In vitro	A weak affinity to 5-HT1A receptors (Ki = 2780 nM) is observed. ABT 724 trihydrochloride(10 μM) exhibits a selective biochemical profile, as indicated by a lack of binding affinity for >70 neurotransmitter/uptake/ion channels including D2, D3, or D5 receptors. ABT 724 trihydrochloride(10 μM) does not inhibit the PDE activity of PDE1,
In vivo	In male adult Wistar rats, ABT 724 trihydrochloride (8.8 μg/kg; s.c.) treatment facilitated penile erection in a dose-dependent manner[1].

Solubility Information

Solubility	H2O: 100 mg/mL (248.29 mM) DMSO: 15 mg/mL (37.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4829 mL	12.4146 mL	24.8293 mL
5 mM	0.4966 mL	2.4829 mL	4.9659 mL
10 mM	0.2483 mL	1.2415 mL	2.4829 mL
50 mM	0.0497 mL	0.2483 mL	0.4966 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

Brioni JD, et al. Activation of dopamine D4 receptors by ABT-724 induces penile erection in rats. Proc Natl Acad Sci U S A. 2004 Apr 27;101(17):6758-63.

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481