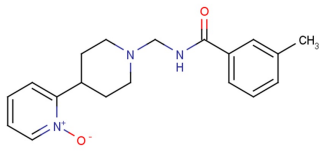
Data Sheet (Cat.No.T14088)

TargetMol
A DRUG SCREENING EXPERT

ABT-670

Chemical Properties



CAS No.:	630119-43-6
Formula:	C19H23N3O2
Molecular Weight:	325.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	ABT-670 is a selective agonist of dopamine D4 receptor. For human D4, ferret D4, and rat D4, the EC50 values are 89 nM, 160 nM, and 93 nM , respectively.
Targets(IC_{50})	Human D4: (EC50) 89 nM Ferret D4: 160 nM (EC50) Rat D4: 93 nM (EC50)
In vitro	ABT-670 is a selective D4 agonist. For human D4, ferret D4, and rat D4, the EC50s values are 89 nM, 160 nM, and 93 nM, respectively[1].
In vivo	ABT-670 (0.1 μmol/kg) robustly induces a high (75%) incidence of erections in male rats. ABT-670 exhibits excellent oral bioavailability in rat, dog, and monkey (68%, 85%, and 91%, respectively) with comparable efficacy, safety, and tolerability[1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.073 mL	15.366 mL	30.731 mL
5 mM	0.615 mL	3.073 mL	6.146 mL
10 mM	0.307 mL	1.537 mL	3.073 mL
50 mM	0.061 mL	0.307 mL	0.615 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Patel MV, et al. Discovery of 3-methyl-N-(1-oxy-3',4',5',6'-tetrahydro-2'H-[2,4'-bipyridine]-1'-ylmethyl)benzamide (ABT-670), an orally bioavailable dopamine D4 agonist for the treatment of erectile dysfunction. J Med Chem. 2006 Dec 14;49(25):7450-65.

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