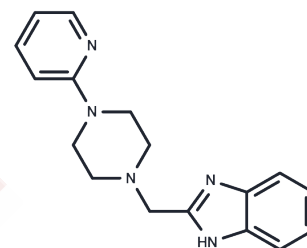


ABT-724

Chemical Properties

CAS No. :	70006-24-5
Formula:	C17H19N5
Molecular Weight:	293.37
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	ABT-724 is an agonist of dopamine D4 receptor(EC50: 12.4 nM)
Targets(IC50)	Dopamine Receptor
In vitro	ABT-724 is a selective dopamine D(4) receptor agonist that activates human dopamine D(4) receptors with an EC(50) of 12.4 nM and 61% efficacy, with no effect on dopamine D(1), D(2), D(3), or D(5) receptors[1].
In vivo	ABT-724 dose-dependently facilitates penile erection when given s.c. to conscious rats, an effect that is blocked by haloperidol and clozapine but not by domperidone. A proerectile effect is observed after intracerebroventricular but not intrathecal administration, suggesting a supraspinal site of action. s.c. injections of ABT-724 increase intracavernosal pressure in awake freely moving rats. In the presence of sildenafil, a potentiation of the proerectile effect of ABT-724 is observed in conscious rats. The ability of ABT-724 to facilitate penile erection together with the favorable side-effect profile indicates that ABT-724 could be useful for the treatment of erectile dysfunction[1].
Animal Research	ABT-724 (maleate salt) was freshly prepared and administered to rats via s.c. injection into the back neck area (1 ml/kg injection volume). For intracerebroventricular (ICV) or intrathecal administrations, rats were allowed at least 1 week of recovery from surgery before behavioral testing. The compounds of interest were infused ICV (left lateral ventricle) in a 5-µl volume or 10 µl intrathecally. After the experiment was completed, infusion of 0.5% fast-green dye in saline solution and subsequent dissection were carried out to confirm the diffusion of the injection solution[1].

Solubility Information

Solubility	DMSO: 10 mg/mL (34.09 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4087 mL	17.0433 mL	34.0866 mL
5 mM	0.6817 mL	3.4087 mL	6.8173 mL
10 mM	0.3409 mL	1.7043 mL	3.4087 mL
50 mM	0.0682 mL	0.3409 mL	0.6817 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

Brioni J D , Moreland R B , Cowart M , et al. Activation of dopamine D4 receptors by ABT-724 induces penile erection in rats[J]. Proceedings of the National Academy of Sciences, 2004, 101(17):6758-6763.

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