

## ABT-670

## Chemical Properties

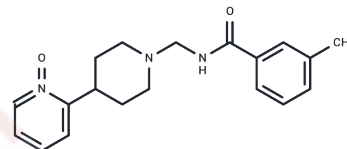
CAS No. : 630119-43-6

Formula: C<sub>19</sub>H<sub>23</sub>N<sub>3</sub>O<sub>2</sub>

Molecular Weight: 325.4

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-670 is a selective agonist of dopamine D4 receptor. For human D4, ferret D4, and rat D4, the EC <sub>50</sub> values are 89 nM, 160 nM, and 93 nM, respectively.
Targets(IC <sub>50</sub> )	Dopamine Receptor
In vitro	ABT-670 is a selective D4 agonist. For human D4, ferret D4, and rat D4, the EC <sub>50</sub> s values are 89 nM, 160 nM, and 93 nM, respectively[1].
In vivo	ABT-670, at a dosage of 0.1 μmol/kg, significantly promotes a high incidence (75%) of erections in male rats, demonstrating robust efficacy. Furthermore, it displays exceptional oral bioavailability across multiple species—rat (68%), dog (85%), and monkey (91%)—while maintaining comparable efficacy, safety, and tolerability[1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0731 mL	15.3657 mL	30.7314 mL
5 mM	0.6146 mL	3.0731 mL	6.1463 mL
10 mM	0.3073 mL	1.5366 mL	3.0731 mL
50 mM	0.0615 mL	0.3073 mL	0.6146 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

Patel MV, et al. Discovery of 3-methyl-N-(1-(2-(pyridin-2-yl)ethyl)pyrrolidin-1-yl)methyl)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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