
Product Data Sheet

Product Name: ABT-670
Cat. No.: GC33552

Chemical Properties

Cas. No. 630119-43-6

SMILES O=C(NCN1CCC(C2=CC=CC=[N+]2[O-])CC1)C3=CC=CC(C)=C3

Formula $C_{19}H_{23}N_3O_2$ M.Wt 325.4

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

ABT-670 is a selective, oral bioavailable agonist of dopamine D4 receptor, with EC50 of 89 nM, 160 nM, and 93 nM for human D4, ferret D4, and rat D4, respectively.

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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].

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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