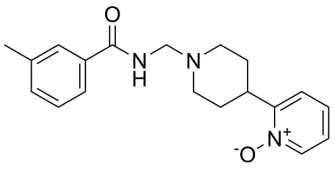
ABT-670

Cat. No.:	HY-19483
CAS No.:	630119-43-6
Molecular Formula:	$C_{19}H_{23}N_3O_2$
Molecular Weight:	325.4
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ABT-670 is a selective, oral bioavailable agonist of dopamine D_4 receptor, with EC_{50} of 89 nM, 160 nM, and 93 nM for human D_4, ferret D_4, and rat D_4, respectively.
IC_{50} & Target	D_4 Receptor
In Vitro	ABT-670 is a selective D_4 agonist, with EC_{50} of 89 nM, 160 nM, and 93 nM for human D_4, ferret D_4, and rat D_4, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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