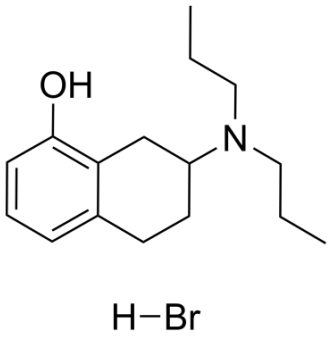
8-Hydroxy-DPAT hydrobromide

Cat. No.:	HY-15688
CAS No.:	76135-31-4
Molecular Formula:	$C_{16}H_{26}BrNO$
Molecular Weight:	328.29
Target:	5-HT Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	8-Hydroxy-DPAT hydrobromide (8-OH-DPAT hydrobromide) is a potent and selective 5-HT_{1A} agonist with a pIC_{50} of 8.19. 8-Hydroxy-DPAT hydrobromide has selectivity of almost 1000 fold for a subtype of the 5-HT_1 binding site[1].
IC_{50} & Target	5-HT_{1A} Receptor 8.19 (pIC_{50})
In Vitro	8-Hydroxy-DPAT hydrobromide (8-OH-DPAT hydrobromide) has no effect on 5-HT_{1B} binding at concentrations lower than 100 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	8-Hydroxy-DPAT hydrobromide (8-OH-DPAT hydrobromide; 32, 56, 80, 100 mg/kg; intramuscularly; 15 min prior to the testing session) of the highest dose significantly interferes with sustained attention and reinforcer efficacy (progressive ratio; PR) performance in the 3,4-methylenedioxymethamphetamine (MDMA)-exposed but not control animals[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. D N Middlemiss, et al. 8-Hydroxy-2-(di-n-propylamino)-tetralin discriminates between subtypes of the 5-HT_1 recognition site. Eur J Pharmacol. 1983 May 20;90(1):151-3.

[2]. Michael A Taffe, et al. Cognitive performance of MDMA-treated rhesus monkeys: sensitivity to serotonergic challenge. Neuropsychopharmacology. 2002 Dec;27(6):993-1005.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA