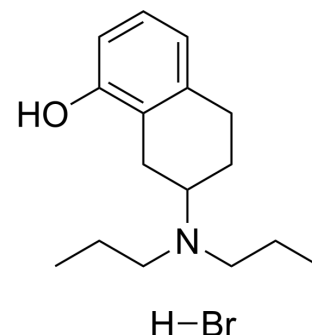


8-OH-DPAT hydrobromide

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:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (76.15 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.0461 mL	15.2304 mL	30.4609 mL
		5 mM	0.6092 mL	3.0461 mL	6.0922 mL
	10 mM	0.3046 mL	1.5230 mL	3.0461 mL	
Please refer to the solubility information to select the appropriate solvent.					

BIOLOGICAL ACTIVITY

Description	8-OH-DPAT (8-Hydroxy-DPAT) hydrobromide is a potent and selective 5-HT _{1A} agonist with a pIC ₅₀ of 8.19. 8-OH-DPAT hydrobromide has selectivity of almost 1000 fold for a subtype of the 5-HT ₁ binding site ^[1] .
IC₅₀ & Target	5-HT _{1A} Receptor 8.19 (pIC ₅₀)
In Vitro	8-OH-DPAT (8-Hydroxy-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-OH-DPAT (8-Hydroxy-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-HT₁ 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.

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

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