

# 8-OH-DPAT

Catalog No: tcsc0043224



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

78950-78-4

**Formula:**

$C_{16}H_{25}NO$

**Pathway:**

Neuronal Signaling;GPCR/G Protein

**Target:**

5-HT Receptor;5-HT Receptor

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 155$  mg/mL (626.57 mM)

**Alternative Names:**

8-Hydroxy-DPAT

**Observed Molecular Weight:**

247.38

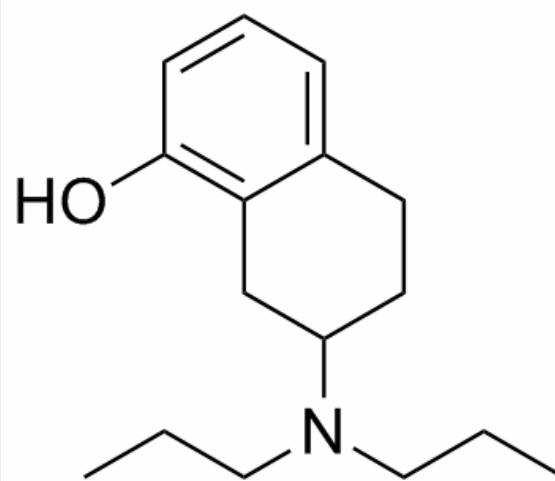
**Product Description**

8-OH-DPAT is a potent and selective **5-HT** agonist, with a **pIC<sub>50</sub>** of 8.19 for 5-HT1A and a **K<sub>i</sub>** of 466 nM for 5-HT7; 8-OH-DPAT weakly binds to 5-HT1B (pIC<sub>50</sub>, 5.42), 5-HT (pIC<sub>50</sub> IC50 & Target: pIC50: 8.19 (5-HT1A)<sup>[1]</sup>

Ki: 466 nM (5-HT7)<sup>[2]</sup>

**In Vitro:** 8-OH-DPAT is a potent and selective 5-HT agonist, with a pIC<sub>50</sub> of 8.19 for 5-HT1A; weakly binds to 5-HT1B (pIC<sub>50</sub>, 5.42), 5-HT (pIC<sub>50</sub><sup>[1]</sup>. 8-OH-DPAT has high affinity at 5-HT7 with a K<sub>i</sub> of 466 nM, and does not bind to 5-HT6 or 5-HT4<sup>[2]</sup>.

**In Vivo:** 8-OH-DPAT (1 mg/kg) normalizes hypolocomotion, significantly increases wakefulness and reduces the duration of REM sleep without effect on the duration of non-REM sleep in the dark period in orexin knockout (KO) mice. 8-OH-DPAT shows no obvious effect on wakefulness or the duration of either REM sleep or non-REM sleep in WT mice. 8-OH-DPAT (1 mg/kg, s.c.) activates 5-HT1A receptor in orexin knockout mice<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!