

## Product Datasheet

### PRX-07034 (orb1219453)

<b>Catalog Number</b>	orb1219453
<b>Category</b>	Small Molecules
<b>Description</b>	<p>PRX-07034 is a selective antagonist of 5-HT<sub>6</sub> receptor. It has cognition and memory-enhancing properties and potently decreases food intake and body weight in rodents. PRX-07034 is both a potent (K<sub>i</sub> = 4-8 nM) and highly selective 5-HT<sub>6</sub> receptor antagonist (≥100-fold selectivity for the 5-HT<sub>6</sub> receptor compared to 68 other GPCRs, ion channels, and transporters, except D(3) (K<sub>i</sub> = 71 nM) and 5-HT<sub>1B</sub> (K<sub>i</sub> = 260 nM) receptors. PRX-07034 is both a potent (K<sub>i</sub> = 4-8 nM) and highly selective 5-HT<sub>6</sub> receptor antagonist (100-fold selectivity for the 5-HT<sub>6</sub> receptor compared to 68 other GPCRs, ion channels, and transporters, except D(3) (K<sub>i</sub> = 71 nM) and 5-HT<sub>1B</sub> (K<sub>i</sub> = 260 nM) receptors. For cyclic AMP quantification, PRX-07034 demonstrated antagonist activity (IC<sub>50</sub>) = 19 nM) without an effect on basal levels and did not show any agonist activity up to 10 μM. PRX-07034 at 1 and 3 mg/kg (but not 0.1 mg/kg) significantly enhanced delayed spontaneous alternation. The drug at 1 and 3 mg/kg also enhanced switching between a place and response strategy, but did not affect initial learning of either a place or response discrimination.</p>
<b>Target</b>	5-HT Receptor
<b>Purity</b>	>98% (HPLC)
<b>MW</b>	490.44
<b>Target Areas</b>	5-HT <sub>6</sub>
<b>Solubility (25°C)</b>	In Vitro: DMSO : 31.25 mg/mL (63.72 mM)
<b>CAS Number</b>	903580-39-2
<b>Formula</b>	C <sub>21</sub> H <sub>29</sub> Cl <sub>2</sub> N <sub>3</sub> O <sub>4</sub> S
<b>SMILES</b>	Cl.COC1cc(Cl)cc(C(C)Nc2cc(ccc2S(C)(=O)=O)N2CCNCC2)c1OC

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<b>Storage</b>	Storage temperature: -20°C. Stability: $\geq$ 2 years
<b>Note</b>	For research use only
<b>Expiration Date</b>	12 months from date of receipt.

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