

Risperidone

Catalog No: tcsc1619



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

106266-06-2

Formula:

$C_{23}H_{27}FN_4O_2$

Pathway:

GPCR/G Protein;Neuronal Signaling;Membrane Transporter/Ion Channel;Neuronal Signaling;GPCR/G Protein

Target:

Dopamine Receptor;Dopamine Receptor;P-glycoprotein;5-HT Receptor;5-HT Receptor

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

R 64 766

Observed Molecular Weight:

410.48

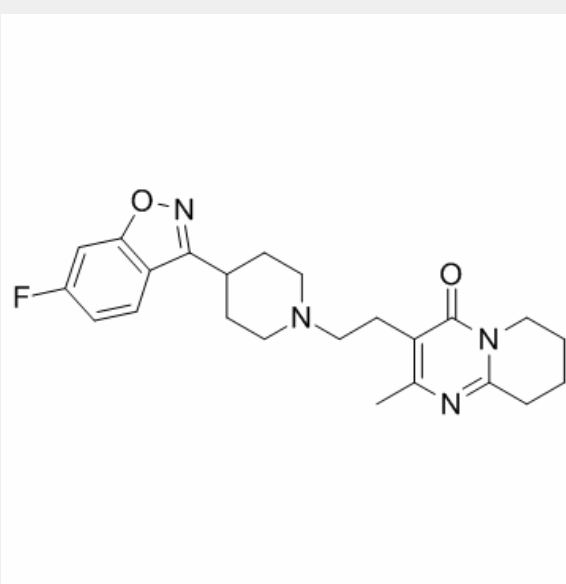
Product Description

Risperidone is a serotonin **5-HT₂ receptor** blocker, **P-Glycoprotein** inhibitor and potent **dopamine D₂ receptor** antagonist, with **K_is** of 4.8, 5.9 nM for 5-HT_{2A} and dopamine D₂ receptor, respectively.

IC50 & Target: Ki: 4.8 nM (5-HT_{2A} receptor); 5.9 nM (dopamine D₂ receptor), P-Glycoprotein^{[1][2]}.

In Vitro: Risperidone is a serotonin 5-HT₂ receptor blocker, P-Glycoprotein inhibitor and potent dopamine D₂ receptor antagonist, with K_is of 4.8, 5.9 nM for 5-HT_{2A} and dopamine D₂ receptor, respectively. Risperidone dose-dependently inhibited the release of IL-12 in mature DCs, while the production of IL-10 is dose-dependently increased by Risperidone. A high dose of risperidone can induce TNF-α release from mature DCs^[3].

In Vivo: In the first experiment, body weight is found to be slightly but significantly lower in the Risperidone-treated rats as a function of age. Similar to the first experiment, age-dependent differences in body weight are also observed between the three treatment groups in the second locomotor experiment. Rats treated with the 3.0 mg/kg dose of Risperidone weigh less than vehicle-treated rats on postnatal days 35, 38, and 41. The third locomotor experiment involves larger, mixed-sex litters in contrast to the smaller, single-sex litters used in the first two experiments. As noted for the first two experiments, rats treated with Risperidone in the third experiment gain less weight in an age-dependent manner^[4].



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