Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

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

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Risperidone is a serotonin **5-HT$_2$ receptor** blocker, **P-Glycoprotein** inhibitor and potent **dopamine D$_2$ receptor** antagonist, with **K$_i$s** of 4.8, 5.9 nM for 5-HT$_{2A}$ and dopamine D$_2$ receptor, respectively.

IC50 & Target: Ki: 4.8 nM (5-HT$_{2A}$ receptor); 5.9 nM (dopamine D$_2$ receptor), P-Glycoprotein[1][2].

In Vitro: Risperidone is a serotonin 5-HT$_2$ receptor blocker, P-Glycoprotein inhibitor and potent dopamine D$_2$ receptor antagonist, with K$_i$s of 4.8, 5.9 nM for 5-HT$_{2A}$ and dopamine D$_2$ 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].