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

Rimonabant

Catalog No: tcsc0645

Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
168273-06-1

Formula:
$C_{22}H_{21}Cl_3N_4O$

Pathway:
Anti-infection;GPCR/G Protein

Target:
Bacterial;Cannabinoid Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
SR141716

Observed Molecular Weight:
463.79

Product Description

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Rimonabant (SR141716) is a highly potent and selective central **cannabinoid (CB1)** receptor inverse agonist with an K_i of 1.8 nM. Rimonabant (SR141716) also inhibits ***Mycobacterial* membrane protein Large 3 (MMPL3)**.

IC50 & Target: Ki: 1.8 nM(CB1 Receptor)[1]. MMPL3[2]

In Vitro: Rimonabant could inhibit the growth of Mtb with an MIC of 54 μM. MmpL3, an anti-TB target, is the direct target of rimonabant[2].

Rimonabant itself (10^{-12}-10^{-3} M, 12 concentrations) inhibits the basal binding of [^{35}S]GTPgS to human cortical membranes in a concentration dependent manner, with a -log IC_{50} of 4.7±0.2 (IC_{50} = 20 μM) and a maximal inhibition of 48±2%[3].

In Vivo: Rimonabant (10 mg/kg by gavage) is fed for 2 weeks to 3-month-old male obese Zucker rats as an impaired glucose tolerance model and for 10 weeks to 6-month-old male obese Zucker rats as a model of the metabolic syndrome. RANTES and MCP-1 serum levels are increased in obese vs lean Zucker rats and significantly reduced by long-term treatment with Rimonabant, which slowes weight gain in rats with the metabolic syndrome. Neutrophils and monocytes are significantly increased in young and old obese vs lean Zucker rats and lowered by Rimonabant. Platelet-bound fibrinogen is significantly enhanced in obese vs lean Zucker rats of both age, and is reduced by Rimonabant [1].

Rimonabant (20 mg daily) exhibits a significant reduction in many cardiometabolic risk factors[4].