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

Otenabant

Catalog No: tcsc1279

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Specifications

CAS No:
686344-29-6

Formula:
$C_{25}H_{25}Cl_2N_7O$

Pathway:
GPCR/G Protein

Target:
Cannabinoid Receptor

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
CP-945598

Observed Molecular Weight:
510.42

Product Description

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Otenabant is a potent and selective **cannabinoid receptor CB1** antagonist with **K_i** of 0.7 nM, exhibits 10,000-fold greater selectivity against human CB2 receptor.

IC50 & Target: Ki: 0.7 nM (CB1)

In Vitro: Otenabant HCl has low affinity with K_i of 7.6 μM for human CB2 receptors[1]. Otenabant HCl inhibits CB1 receptor with moderate unbound microsomal clearance, low hERG affinity, and adequate CNS penetration[2].

In Vivo: Otenabant acutely stimulates energy expenditure in rats and decreases the respiratory quotient indicating a metabolic switch to increased fat oxidation. Otenabant (10 mg/kg, p.o.) promotes a 9%, vehicle adjusted weight loss in a 10 day weight loss study in diet-induced obese mice[1]. Otenabant HCl reverses four cannabinoid agonistmediated behaviors (locomotor activity, hypothermia, analgesia, and catalepsy) following administration of the synthetic CB1 receptor agonist CP-55940. Otenabant HCl exhibits dose-dependent anorectic activity in a model of acute food intake in rodents and increased energy expenditure and fat oxidation[2].