Product Datasheet

Otenabant hydrochloride (orb1224244)

Catalog Number	orb1224244
Category	Small Molecules
Description	A potent, and selective CB1 receptor antagonist with Ki of 0.7 nM/0.12 nM in binding and functional assays respectively; has low affinity (Ki=7600 nM) for human CB2 receptors; reverses cannabinoid agonist mediated responses, reduces food intake, and increases energy expenditure and fat oxidation in rodents.Obesity Phase 3 Discontinued(In Vitro):Otenabant HCl has low affinity with Ki of 7.6 μM for human CB2 receptors. Otenabant HCl inhibits CB1 receptor with moderate unbound microsomal clearance, low hERG affinity, and adequate CNS penetration.(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. 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.
Target	Cannabinoid Receptor
Purity	>98% (HPLC)
MW	546.8792
Target Areas	hCB1|hCB2|rCB1
Solubility (25°C)	DMSO: 1 mg/mL
CAS Number	686347-12-6
Formula	$C_{25}H_{26}Cl_3N_7O$

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SMILES	CCNC1(CCN(CC1)C1=NC=NC2=C1NC(N2C1=CC=C(Cl)C=C1)C1=CC=CC=C1Cl)C(N)=O
Chemical Name	4-Piperidinecarboxamide, 1-[8-(2-chlorophenyl)-9-(4-chlorophenyl)-9H-purin-6-yl]-4-(ethylamino)-, hydrochloride (1:1)
Storage	Storage temperature: -20°C. Stability: ≥ 2 years
Note	For research use only
Expiration Date	12 months from date of receipt.

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