

O-2050

Chemical Properties

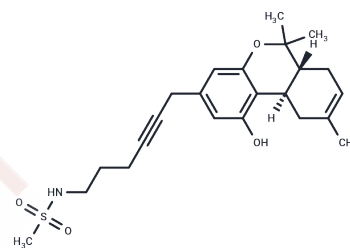
CAS No. : 1883545-42-3

Formula: C₂₃H₃₁NO₄S

Molecular Weight: 417.56

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	O-2050 is a high-affinity cannabinoid CB1 receptor antagonist with a K_i of 2.5 nM and inhibits the cannabinoid CB2 receptor with a K_i of 0.2 nM. O-2050 decreased food intake and stimulated locomotion in mice [1].
Targets(IC50)	Cannabinoid Receptor,Others
In vivo	O-2050, administered intraperitoneally at doses of 1, 3, 10, and 30 mg/kg with a 30-minute pretreatment, significantly reduces food intake in mice in a dose-dependent manner. Notably, doses of 10 and 30 mg/kg of O-2050 also significantly enhance locomotor activity [1].

Solubility Information

Solubility	DMSO: <41.76 mg/mL, Sonication is recommended. Ethanol: <41.76 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3949 mL	11.9743 mL	23.9487 mL
5 mM	0.479 mL	2.3949 mL	4.7897 mL
10 mM	0.2395 mL	1.1974 mL	2.3949 mL
50 mM	0.0479 mL	0.2395 mL	0.479 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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