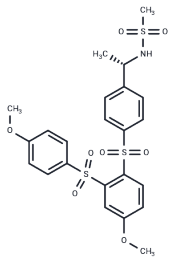
Data Sheet (Cat.No.T24771)

TargetMol

SCH-336

Chemical Properties



CAS No. : 447459-51-0

Formula: C23H25NO8S3

Molecular Weight: 539.64

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	SCH-336 is a CB2 receptor agonist (Ki-1.8 nM, EC50-2 nM) with effective, selective, and oral activity. SCH-336 is also bioactive against CB1 receptor, and is 100 times more selective to CB2 receptor than CB1. SCH-336 reduced the binding of guanosine 5' -3-o -(sulfur) triphosphate to the membrane containing hCB, inhibited BaF3/CB2 cell migration, inhibited leukocyte migration in mouse delayed hypersensitivity models, and inhibited antigen-induced pulmonary eosinophilia in mouse allergy models.
Targets(IC50)	Cannabinoid Receptor
In vitro	SCH 336 (also known as Sch.336) exhibits competitive binding with [3H]CP55,940 to human CB2 receptors on Sf9 cell membranes, with a Ki value of 1.8 nM. It reduces GTPγS binding on membranes containing human CB2 receptors, with an EC50 of 2 nM. However, its potency decreases on membranes containing CB1 receptors, with an EC50 of 200 nM [1]. Moreover, SCH 336 inhibits the migration of BaF3/CB2 cells towards 100 nM 2-AG, with an IC50 of 34 nM [1].
In vivo	In in vivo studies, when administered intraperitoneally (i.p.) at doses of 0.02-2.0 mg/kg, SCH 336 significantly inhibits leukocyte migration [1].

Solubility Information

Solubility	DMSO: 90 mg/mL (166.78 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8531 mL	9.2654 mL	18.5309 mL
5 mM	0.3706 mL	1.8531 mL	3.7062 mL
10 mM	0.1853 mL	0.9265 mL	1.8531 mL
50 mM	0.0371 mL	0.1853 mL	0.3706 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.

Reference

Lunn CA, et al. A novel cannabinoid peripheral cannabinoid receptor-selective inverse agonist blocks leukocyte recruitment in vivo. J Pharmacol Exp Ther. 2006;316(2):780-788.