SCH 336

Cat. No.: HY-121852

CAS No.: 447459-51-0

Molecular Formula: $C_{23}H_{25}NO_8S_3$

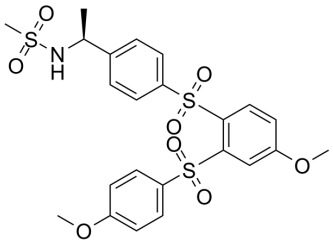
Molecular Weight: 539.64

Target: Cannabinoid Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (185.31 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

SCH 336 is a potent, selective, inverse and orally active CB2 agonist. SCH 336 inhibits BaF3/CB2 migration. SCH 336 significantly inhibits the migration of leukocytes in vivo. SCH 336 blocks ovalbumin-induced lung eosinophilia in mice[1].

IC_{50} & Target

hCB2-R

In Vitro

SCH 336 (Sch.336) (0-10 μM) competes with [3H]CP55,940 for binding to human CB2 on Sf9 cell membranes with K_i of 1.8 nM, and decreases GTPγS binding on human CB2-containing membranes with an EC_{50} of 2 nM, decreases potency on CB1-containing membranes with EC_{50} of 200 nM[1].

SCH 336 inhibits BaF3/CB2 migration to 100 nM 2-AG with an IC_{50} of 34 nM[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

SCH 336 (0.02, 0.2, 2.0 mg/kg; i.p.) significantly inhibits the migration of leukocytes[1].

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Animal Model:	Female B6D2/F1 mice (HU210)[1]
Dosage:	0.02, 0.2, 2.0 mg/kg
Administration:	I.p.
Result:	Significantly inhibited the migration of leukocytes into the CCL2-soaked gel foam sponge.

REFERENCES

[1]. Lunn CA, et al. A novel cannabinoid peripheral cannabinoid receptor-selective inverse agonist blocks leukocyte recruitment in vivo. J Pharmacol Exp Ther. 2006 Feb;316(2):780-8.

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