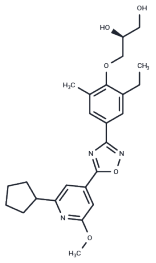
Data Sheet (Cat.No.T14924)

TargetMol

Cenerimod

Chemical Properties



CAS No. : 1262414-04-9

Formula: C25H31N3O5

Molecular Weight: 453.53

Appearance: no data available

Storage: keep away from direct sunlight
Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	Cenerimod (ACT-334441) is an orally active, selective, and potent sphingosine 1-phosphate receptor (S1P1) agonist (EC50: 1 nM).Cenerimod inhibits multiple S1P isoforms and can be used to study murine experimental autoimmune encephalomyelitis (EAE) and murine scleroderma.
Targets(IC50)	S1P Receptor
In vitro	Cultured fibroblasts were pretreated with a vehicle or Cenerimod (5 μmol/L), followed by incubation with TGF-β2 (10 ng/mL) for 24 hours. The results indicated that Cenerimod inhibited collagen production in fibroblasts[1].
In vivo	In male Wistar rats weighing 294-510 g, Cenerimod (0.1, 0.3, 1, 3, and 10 mg/kg; single oral dose) effectively and reversibly reduced blood lymphocyte counts[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (176.39 mM),Sonification is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2049 mL	11.0246 mL	22.0493 mL
5 mM	0.441 mL	2.2049 mL	4.4099 mL
10 mM	0.2205 mL	1.1025 mL	2.2049 mL
50 mM	0.0441 mL	0.2205 mL	0.441 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.

Reference

Piali L, et al. Cenerimod, a novel selective S1P 1 receptor modulator with unique signaling properties. Pharmacol Res Perspect. 2017 Dec;5(6):e00370.

Kano M, et al. Attenuation of murine sclerodermatous models by the selective S1P 1 receptor modulator cenerimod. Sci Rep. 2019 Jan 24;9(1):658.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481