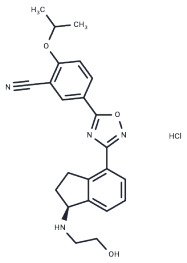
Data Sheet (Cat.No.T62552)

TargetMol

Ozanimod hydrochloride

Chemical Properties



CAS No. : 1618636-37-5

Formula: C23H25ClN4O3

Molecular Weight: 440.92

Storage: Keep away from direct sunlight,Keep away from moisture,Store at low temperature
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	Ozanimod hydrochloride (RPC-1063 hydrochloride) is an orally available, selective and potent sphingosine 1-phosphate (S1P) receptor modulator that shows high affinity for S1P1 and S1P5.Ozanimod has potential anticancer activity and can be used in the study of multiple sclerosis (MS), ulcerative multiple sclerosis (UMS), and other diseases. (MS), ulcerative colitis, coronavirus infections and myelodysplasia.
Targets(IC50)	LPL Receptor,S1P Receptor
In vitro	Ozanimod hydrochloride, as a sphingosine-1-phosphate (S1P) receptor modulator, selectively binds with high affinity to S1P receptor subtypes 1 (S1P1) and S1P5[1].
In vivo	In the experimental autoimmune encephalomyelitis (EAE) model, Ozanimod hydrochloride (0.05, 0.2, or 1 mg/kg; oral gavage; once daily; for 14 consecutive days) alleviated weight loss, with significantly reduced terminal disease scores observed in the 0.2 and 1 mg/kg dose groups. Moreover, cell counts were significantly reduced in all dose groups[1].

Solubility Information

Solubility	DMSO: 150 mg/mL (340.2 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 5 mg/mL (11.34 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.268 mL	11.3399 mL	22.6799 mL
5 mM	0.4536 mL	2.268 mL	4.536 mL
10 mM	0.2268 mL	1.134 mL	2.268 mL
50 mM	0.0454 mL	0.2268 mL	0.4536 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

Selkirk JV, et al. Deconstructing the Pharmacological Contribution of Sphingosine-1 Phosphate Receptors to Mouse Models of Multiple Sclerosis Using the Species Selectivity of Ozanimod, a Dual Modulator of Human Sphingosine 1-Phosphate Receptor Subtypes 1 and 5. J Pharmacol Exp Ther. 2021 Dec;379(3):386-399.