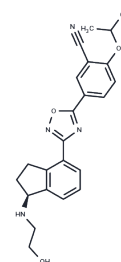


## Ozanimod

## Chemical Properties

CAS No. :	1306760-87-1
Formula:	C <sub>23</sub> H <sub>24</sub> N <sub>4</sub> O <sub>3</sub>
Molecular Weight:	404.46
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	Ozanimod (RPC-1063) (RPC1063) is a specific oral S1P Receptor 1 modulator. Ozanimod has been used in trials studying the treatment of Crohn's Disease, Ulcerative Colitis, Multiple Sclerosis, and Relapsing Multiple Sclerosis.
Targets(IC50)	LPL Receptor,S1P Receptor
In vitro	In S1P1R-HEK293T cells, Ozanimod induces sustained S1P1R internalization and degradation. [1]
In vivo	In vivo, Ozanimod shows high oral bioavailability and volume of distribution. In a MOG-induced EAE mouse model, Ozanimod (3 mg/kg, p.o.) suppresses Clinical symptoms. In a rat TNBS model of inflammatory bowel disease, Ozanimod (1.2 mg/kg, p.o.) inhibits Clinical and histological disease scores. In a Na <sup>+</sup> ve CD4+CD45Rbhi T cell adoptive transfer model, Ozanimod (1.2 mg/kg, p.o.) also significantly reduced disease severity as assessed by measuring the degree of inflammation, gland loss, hyperplasia, neutrophil infiltrate and mucosal thickness. [1]

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble), DMSO: 41.67 mg/mL (103.03 mM),Sonication is recommended. Ethanol: 10 mg/mL (24.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 4.17 mg/mL (10.31 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% (20% SBE-β-CD in Saline): < 4.17 mg/mL (10.31 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: < 4.17 mg/mL (10.31 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+90% Corn oil: < 4.17 mg/mL (10.31 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <i>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.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4724 mL	12.3622 mL	24.7243 mL
5 mM	0.4945 mL	2.4724 mL	4.9449 mL
10 mM	0.2472 mL	1.2362 mL	2.4724 mL
50 mM	0.0494 mL	0.2472 mL	0.4945 mL

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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

Scott FL, et al. Br J Pharmacol. 2016. doi: 10.1111/bph.13476.

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