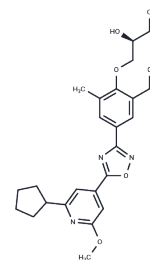


## Cenerimod

## Chemical Properties

CAS No. :	1262414-04-9
Formula:	C <sub>25</sub> H <sub>31</sub> N <sub>3</sub> O <sub>5</sub>
Molecular Weight:	453.53
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Cenerimod (ACT-334441) is an orally active, selective, and potent sphingosine 1-phosphate receptor (S1P1) agonist (EC <sub>50</sub> : 1 nM). Cenerimod inhibits multiple S1P isoforms and can be used to study murine experimental autoimmune encephalomyelitis (EAE) and murine scleroderma.
Targets(IC50)	LPL Receptor, S1P Receptor
In vitro	Cultured fibroblasts were pretreated with a vehicle or Cenerimod (5 μmol/L), followed by incubation with TGF-β <sub>2</sub> (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), 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: 3.3 mg/mL (7.28 mM), Sonication is recommended. <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	2.2049 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

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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

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.

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