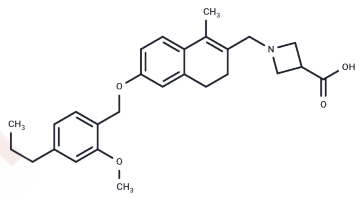
Data Sheet (Cat.No.T14930)

TargetMol

Ceralifimod

Chemical Properties



CAS No. : 891859-12-4

Formula: C27H33NO4

Molecular Weight: 435.56

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	Ceralifimod (ONO-4641) is a potent agonist for sphingosine 1-phosphate receptors 1 and 5 (EC50s: 27.3, 334 pM for human S1P receptor 1 and 5).
Targets(IC50)	Others,LPL Receptor
In vitro	Ceralifimod induces S1P1 down-regulation in a concentration-dependent manner and by approximately 90% at a concentration of 25 nM. Ceralifimod has an agonistic action for S1P1 and S1P5. However, there is no difference between humans and rats in the agonistic action of Ceralifimod for S1P1.
In vivo	The maximum clinical scores decrease dose-dependently in the Ceralifimod groups and those in the Ceralifimod 0.03 and 0.1 mg/kg groups are significantly lower than that in the control group. In the Ceralifimod 0.1 mg/kg group, paralysis is inhibited completely in seven of eight animals. In contrast, none of the animals in the Ceralifimod 0.1 mg/kg group have a relapse; that is, Ceralifimod completely prevents relapse at a dose of 0.1 mg/kg. In normal NOD mice, the number of peripheral blood lymphocytes is decreased by approximately 20, 60, and 80% at 24 h after a single oral dose of 0.01, 0.03, and 0.1 mg/kg of Ceralifimod, respectively. In the control group of the NOD mouse model of relapsing-remitting EAE, the relapse rate is 90.0%, and two of the nine animals die. In the Ceralifimod groups, two of the nine animals in the 0.01 mg/kg died.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2959 mL	11.4795 mL	22.9589 mL
5 mM	0.4592 mL	2.2959 mL	4.5918 mL
10 mM	0.2296 mL	1.1479 mL	2.2959 mL
50 mM	0.0459 mL	0.2296 mL	0.4592 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

Komiya T, et al. Efficacy and immunomodulatory actions of ONO-4641, a novel selective agonist for sphingosine 1-phosphate receptors 1 and 5, in preclinical models of multiple sclerosis. Clin Exp Immunol. 2013 Jan;171(1):54-62.