Udifitimod

Cat. No.: HY-119245

CAS No.: 1883345-06-9

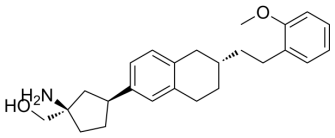
Molecular Formula: $C_{25}H_{33}NO_2$

Molecular Weight: 379.54

Target: LPL Receptor

Pathway: GPCR/G Protein

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Udifitimod (BMS-986166) is a potent, selective and orally active S1P1R modulator. Udifitimod has the potential for the research of autoimmune diseases[1][2].
IC_{50} & Target	S1PR1
In Vivo	Udifitimod (0.1, 0.5 mg/kg; p.o.; once daily for 21 days) shows anti-inflammation activity in autoimmune encephalomyelitis model [1]. Udifitimod (0.1, 0.5 mg/kg; p.o.; once daily for 50 days) reduces the clinical score as well as the paw histology score in the collagen-induced arthritis (CIA) model[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	6-8 weeks, C57BL/6 female mice (autoimmune encephalomyelitis model (EAE))[2]
Dosage:	0.1, 0.5 mg/kg
Administration:	P.o.; once daily for 21 days
Result:	Showed a dose-dependent reduction in clinical scores for inflammation.

Animal Model:	DBA/1 mice (collagen-induced arthritis (CIA) model)[2]
Dosage:	0.1, 0.5 mg/kg
Administration:	P.o.; once daily for 50 days
Result:	Dose dependently reduced both the clinical score as well as the paw histology score following the dosing regimens.

REFERENCES

[1]. Bihorel S, et al. Population Pharmacokinetic Analysis of BMS-986166, a Novel Selective Sphingosine-1-Phosphate-1 Receptor Modulator, and Exposure-Response Assessment of Lymphocyte Counts and Heart Rate in Healthy Participants. Clin Pharmacol Drug Dev. 2021 Jan;10(1):8-21.

[2]. Gilmore JL, et al. Identification and Preclinical Pharmacology of ((1 R,3 S)-1-Amino-3-((S)-6-(2-methoxyphenethyl)-5,6,7,8-tetrahydronaphthalen-2-yl)cyclopentyl)methanol (BMS-986166): A Differentiated Sphingosine-1-phosphate Receptor 1 (S1P1) Modulator Advanced into Clinical Trials. J Med Chem. 2019 Mar 14;62(5):2265-2285.

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