RP101075

MedChemExpress

Cat. No.:	HY-136576	$\rightarrow 0$
CAS No.:	1306760-73-5	
Molecular Formula:	C ₂₁ H ₂₀ N ₄ O ₂	N
Molecular Weight:	360.41	>∕_O N N
Target:	LPL Receptor; Drug Metabolite	
Pathway:	GPCR/G Protein; Metabolic Enzyme/Protease	
Storage:	Please store the product under the recommended conditions in the Certificate of	
	Analysis.	H ₂ N

Description	RP101075, an active metabolite of Ozanimod, is a potent, orally active S1PR (sphingosine-1-phosphate receptor 1) agonist, with an EC ₅₀ of 0.27 nM. RP101075 displays >100-fold selectivity over S1PR5 (EC ₅₀ =5.9 nM) and >10000-fold over S1PR 2, 3, and 4. RP101075 displays superior cardiovascular safety profile ^[1] .			
IC ₅₀ & Target	S1PR1 0.27 nM (EC50)	S1PR5 5.9 nM (EC50)		
In Vivo	RP101075 (0.3-0.6 mg/kg; p.o.) significantly attenuated neurological deficits and reduced brain edema in intracerebral hemorrhage (ICH) mice. RP101075 reduced the counts of brain-infiltrating lymphocytes, neutrophils, and microglia, as well as cytokine expression after ICH. Enhanced blood-brain barrier integrity and alleviated neuronal death were also seen in ICH mice after RP101075 treatment ^[1] . RP101075 (0.3-3 mg/kg; p.o.; daily from week 23 until week 42) inhibits lymphocytes and pDC in the spleens of mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	NZBWF1 female mice ^[2]		
	Dosage:	0.3, 1, 3 mg/kg		
	Administration:	P.o.; daily from week 23 until week 42		
	Result:	Dose-dependent reduction in lymphocytes in the spleen following 20 weeks of treatment; a reduction in plasmacytoid dendritic cells (pDC).		

REFERENCES

[1]. Sun N, et al. Selective Sphingosine-1-Phosphate Receptor 1 Modulation Attenuates Experimental Intracerebral Hemorrhage. Stroke. 2016;47(7):1899-1906.

[2]. Taylor Meadows KR, et al. Ozanimod (RPC1063), a selective S1PR1 and S1PR5 modulator, reduces chronic inflammation and alleviates kidney pathology in murine systemic lupus erythematosus. PLoS One. 2018;13(4):e0193236. Published 2018 Apr 2.

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Proteins



Caution: Product has not been fully validated for medical applications. For research use only.

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