## S1P1 agonist 5

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Cat. No.: CAS No.: Molecular Formula: Molecular Weight: Target: Pathway: Storage:	HY-144126 2760666-20-2 C <sub>23</sub> H <sub>24</sub> ClN <sub>2</sub> NaO <sub>4</sub> 450.89 LPL Receptor GPCR/G Protein Please store the product under the recommended conditions in the Certificate of	NaO-C- N-C- N-O CI
	Analysis.	

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Description	S1P1 agonist 5 is a	selective and orally a	ctive S1P1 agonis	st. S1P1 agonist 5 inf	nibits the lymphocyte egress from the lymphoid		
	tissue to the peripl	neral blood. S1P1 ago	nist 5 has the pot	ential for the researc	ch of multiple sclerosis (MS) <sup>[1]</sup> .		
In Vitro	S1P1 agonist 5 (co recruitment and in MCE has not indep	51P1 agonist 5 (compound 21l) shows excellent in vitro efficacies with EC <sub>50</sub> s of 7.03 nM and 11.8 nM for β-arrestin <sup>r</sup> ecruitment and internalization, respectively <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.					
In Vivo	S1P1 agonist 5 sho S1P1 agonist 5 (10 lymphopenia can b S1P1 agonist 5 (3, 1 mice, showing favo Pharmacokinetic F	ws good oral bioavali mg/kg; p.o.) inhibits f pe recovered within 2 10 mg/kg, p.o., once c prable drug-like prope Parameters of S1P1 in	iabily in rats (F=54 the lymphocyte ef 4 hours <sup>[1]</sup> . laily for 20 days) a erties <sup>[1]</sup> . rats, male beagle	4.2%) and dogs (F=3: gress from the lympl ameliorates the disea e dogs <sup>[1]</sup> .	1.8%) <sup>[1]</sup> . noid tissue to the peripheral blood and that ase progression and overall severity in EAE		
	administration	parameters	rat	dog			
	i.v.	T <sub>1/2</sub> (h)	1.4±0.3	5.70±1.2			
		AUC <sub>0-∞</sub> (ng*h/mL)	931.3±95.7	14,830.8±5475.4			
		CL (mL/min/kg)	17.6±2.0	149.9±62.5			
		V <sub>ss</sub> (L/kg)	1.7±0.2	828.7±134.2			
	p.o.	C <sub>max</sub> (ng/mL)	1661.1±916.6	3979.4±483.5			
		T <sub>max</sub> (h)	0.9±0.8	1.3±0.5			
		T <sub>1/2</sub> (h)	1.4±0.2	4.9±0.6			

Product Data Sheet

ŀ	AUC <sub>0-∞</sub> (ng*h/mL) 504	4.9±1061	23,109.9±7752.2			
	F (%)	54.2	31.8			
Rats, 1 mg/kg for i.v. MCE has not indepe	; 10 mg/kg for p.o dogs, ndently confirmed the ac	2 mg/kg i. curacy of t	v.;10 mg/kg for p.o. <sup>[1]</sup> hese methods. They are	e for reference only.		
Animal Model:	rats, male bea	gle dogs <sup>[1</sup>	]			
Dosage:						
Administration:	1 mg/kg for i.v	1 mg/kg for i.v. and 10 mg/kg for p.o (rats); 2 mg/kg for i.v. and 10 mg/kg for p.o.(dogs)				
Result:	Showed good	Showed good oral bioavaliabily in rats (F=54.2%) and dogs (F=31.8%).				
Animal Model:	male wistar ra	male wistar rats (5 week, 160-180 g) <sup>[1]</sup>				
Dosage:	10 mg/kg	10 mg/kg				
Administration:	p.o.					
Result:	Inhibited the l lymphopenia	Inhibited the lymphocyte egress from the lymphoid tissue to the peripheral blood and that lymphopenia can be recovered within 24 hours.				
Animal Model:	female C57BL, mouse model	female C57BL/6 mice (10 weeks,19–22 g) (experimental autoimmune encephalitis (EAE) mouse model) <sup>[1]</sup>				
Dosage:	3, 10 mg/kg (d water)	3, 10 mg/kg (dissolved in 2.5% DMSO and 5% Kolliphor HS 15 (Sigma-Aldrich) in distilled water)				
Administration:	p.o., once dail	y, 20 days				
Result:	Ameliorated t drug-like prop	ne disease erties.	progression and overa	ll severity in EAE mice, showing favorable		

## REFERENCES

[1]. Park SJ, et al. Discovery of Novel Sphingosine-1-Phosphate-1 Receptor Agonists for the Treatment of Multiple Sclerosis. J Med Chem. 2022; 65(4):3539-3562.

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

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