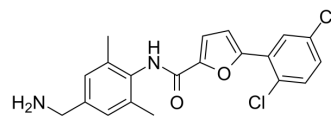


## CYM50358

<b>Cat. No.:</b>	HY-136462		
<b>CAS No.:</b>	1314212-39-9		
<b>Molecular Formula:</b>	C <sub>20</sub> H <sub>18</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	389.28		
<b>Target:</b>	LPL Receptor		
<b>Pathway:</b>	GPCR/G Protein		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 125 mg/mL (321.11 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	<b>Preparing Stock Solutions</b>	1 mM	2.5688 mL	12.8442 mL	25.6885 mL
		5 mM	0.5138 mL	2.5688 mL	5.1377 mL
10 mM		0.2569 mL	1.2844 mL	2.5688 mL	
Please refer to the solubility information to select the appropriate solvent.					
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution  2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.34 mM); Clear solution				

### BIOLOGICAL ACTIVITY

<b>Description</b>	CYM50358 is a potent and selective S1PR4 antagonist, with an IC <sub>50</sub> of 25 nM. CYM50358 can be used for the research of influenza infection <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	S1PR4 25 nM (IC <sub>50</sub> )
<b>In Vitro</b>	CYM50358 shows less potent inhibition of S1PR1 (IC <sub>50</sub> =6.4 μM) <sup>[1]</sup> . CYM50358 (10 μM) has no effect on the collagen-induced HSP27 phosphorylation, markedly reverses the suppressive effect of S1P on the collagen-induced phosphorylation of HSP27 <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

[1]. Guerrero M, et, al. Discovery, design and synthesis of the first reported potent and selective sphingosine-1-phosphate 4 (S1P4) receptor antagonists. Bioorg Med Chem Lett. 2011 Jun 15;21(12):3632-6.

[2]. Onuma T, et, al. Sphingosine 1-phosphate (S1P) suppresses the collagen-induced activation of human platelets via S1P4 receptor. Thromb Res. 2017 Aug;156:91-100.

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

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