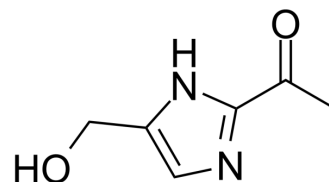


A6770

Cat. No.:	HY-139094		
CAS No.:	1331754-16-5		
Molecular Formula:	C ₆ H ₈ N ₂ O ₂		
Molecular Weight:	140.14		
Target:	LPL Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 30 mg/mL (214.07 mM; Need ultrasonic and warming)					
	Preparing Stock Solutions	<div>Solvent Concentration</div>	Mass	1 mg	5 mg	10 mg
		1 mM		7.1357 mL	35.6786 mL	71.3572 mL
		5 mM		1.4271 mL	7.1357 mL	14.2714 mL
		10 mM		0.7136 mL	3.5679 mL	7.1357 mL
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: PBS Solubility: 10 mg/mL (71.36 mM); Clear solution; Need ultrasonic and warming					

BIOLOGICAL ACTIVITY

Description	A6770 is an orally active, potent sphingosine 1-phosphate (S1P) lyase (S1PL) inhibitor. A6770 is phosphorylated and the phosphorylated form directly inhibits S1P lyase. A6770, a potential key metabolite of THI, induces a [³ H]dhS1P increase ^{[1][2]} .
In Vitro	A6770 causes concentration-dependent increases in [³ H] dhS1P with the EC ₅₀ ranging from 30 to 200 μM under the normal condition ^[1] . A6770 leads to S1PL inhibition rather than SPHK activation or SPP inhibition ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	A6770 (1, 10, 100mg/kg; po; single dose) induces reductions in peripheral lymphocyte number in rats ^[2] MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Mamoru Ohtoyo, et al. Scintillation Proximity Assay to Detect the Changes in Cellular Dihydrosphingosine 1-Phosphate Levels. *Lipids*. 2016 Oct;51(10):1207-1216.
- [2]. Mamoru Ohtoyo, et al. Component of Caramel Food Coloring, THI, Causes Lymphopenia Indirectly via a Key Metabolic Intermediate. *Cell Chem Biol*. 2016 May 19;23(5):555-560.
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Caution: Product has not been fully validated for medical applications. For research use only.

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