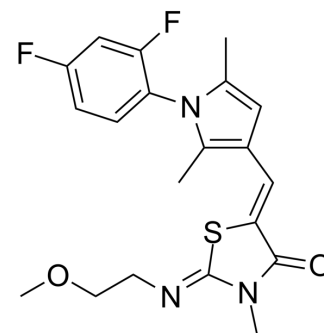


CYM50308

Cat. No.:	HY-108495		
CAS No.:	1345858-76-5		
Molecular Formula:	C ₂₀ H ₂₁ F ₂ N ₃ O ₂ S		
Molecular Weight:	405.46		
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 : 10 mg/mL (24.66 mM); ultrasonic and warming and heat to 60°C)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.4663 mL	12.3317 mL	24.6633 mL
		5 mM		0.4933 mL	2.4663 mL	4.9327 mL
	10 mM		0.2466 mL	1.2332 mL	2.4663 mL	
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	<ol style="list-style-type: none"> Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 3 mg/mL (7.40 mM); Suspended solution; Need ultrasonic Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 3 mg/mL (7.40 mM); Clear solution 					

BIOLOGICAL ACTIVITY

Description	CYM50308 (ML248) is a potent, selective and high affinity sphingosine-1-phosphate receptor 4 (S1P ₄ -R) agonist with an EC ₅₀ of 56 nM. CYM50308 displays 37-fold more selective for S1P ₄ -R than S1P ₅ -R. CYM50308 has no activity at S1P ₁ -R, S1P ₂ -R and S1P ₃ -R subtypes at concentrations up to 25 μM ^[1] .
IC₅₀ & Target	EC ₅₀ : 56 nM (S1P ₄ -R), 2100 nM (S1P ₅ -R) ^[1]
In Vitro	The disclosed lead molecule CYM50308 (Compound 24f) displays low nanomolar S1P ₄ -R agonist activity and exquisite selectivity over the other S1P-Rs subtypes. Noteworthy, CYM50308 provides a valuable pharmacological tool to explore the effects of the S1P ₄ -R signaling cascade and elucidate the molecular basis of the in vivo receptor function ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Urbano M, et al. Discovery, synthesis and SAR analysis of novel selective small molecule S1P4-R agonists based on a (2Z,5Z)-5-((pyrrol-3-yl)methylene)-3-alkyl-2-(alkylimino)thiazolidin-4-one chemotype. *Bioorg Med Chem Lett*. 2011 Nov 15;21(22):6739-45.

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

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