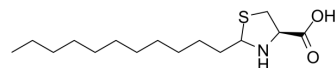


CAY10444

Cat. No.:	HY-119401		
CAS No.:	298186-80-8		
Molecular Formula:	C ₁₅ H ₂₉ NO ₂ S		
Molecular Weight:	287.46		
Target:	LPL Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (144.96 mM; ultrasonic and warming and heat to 80°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.4787 mL	17.3937 mL	34.7874 mL
	5 mM	0.6957 mL	3.4787 mL	6.9575 mL
	10 mM	0.3479 mL	1.7394 mL	3.4787 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: 2.5 mg/mL (8.70 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (8.70 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.70 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CAY10444 (BML-241) is a sphingosine-1-phosphate 3 (S1P3) antagonist. CAY10444 inhibits by 37% S1P-induced increases in Ca²⁺ in HeLa cells expressing S1P3 receptors^[1].

IC₅₀ & Target

S1PR3

In Vitro

BML-241 inhibits increases in intracellular Ca²⁺ concentration via P2 receptor or α1A-adrenoceptor stimulation and α1A-adrenoceptor-mediated contraction of rat mesenteric artery, while it does not affect S1P3-mediated decrease of Forskolin-

induced cyclic AMP accumulation^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Salvatore Salomone, et al. Selectivity and specificity of sphingosine-1-phosphate receptor ligands: caveats and critical thinking in characterizing receptor-mediated effects. *Front Pharmacol.* 2011 Feb 22;2:9.

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

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