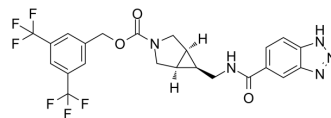


BI-2545

Cat. No.:	HY-124772		
CAS No.:	2162961-71-7		
Molecular Formula:	C ₂₃ H ₁₉ F ₆ N ₅ O ₃		
Molecular Weight:	527.42		
Target:	Phosphodiesterase (PDE)		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (474.01 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
Preparing Stock Solutions	1 mM	1.8960 mL	9.4801 mL	18.9602 mL
	5 mM	0.3792 mL	1.8960 mL	3.7920 mL
	10 mM	0.1896 mL	0.9480 mL	1.8960 mL
Please refer to the solubility information to select the appropriate solvent.				
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (3.94 mM); Clear solution			
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.94 mM); Clear solution			

BIOLOGICAL ACTIVITY

Description	BI-2545 is a potent autotaxin (ATX) inhibitor that significantly reduces LPA, with IC ₅₀ s of 2.2 nM and 3.4 nM for human ATX and rat ATX, respectively ^[1] .
IC ₅₀ & Target	C50: 2.2 nM (human ATX), 3.4 nM (rat ATX) ^[1]
In Vitro	BI-2545 displays good potency in the LPA and rat whole blood assay with IC ₅₀ s of 29 nM and 96 nM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	BI-2545 (10 mg/kg; p.o.) has high and sustained in vivo efficacy in reducing LPAs ^[1] . BI-2545 (10 mg/kg; p.o.) has a half-life of t _{1/2} =3.4 hours ^[1] .

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

Animal Model:	Rat ^[1]
Dosage:	10 mg/kg
Administration:	Oral administration
Result:	Reduces the sum of the plasma LPA species up to 90%.

REFERENCES

[1]. Kuttruff, C. A., et al. Discovery of BI-2545: A Novel Autotaxin Inhibitor That Significantly Reduces LPA Levels in Vivo. ACS Medicinal Chemistry Letters, 8(12), 1252–1257.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA