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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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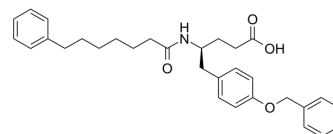
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sPLA2 inhibitor 1

Cat. No.:	HY-11059
CAS No.:	393569-31-8
Molecular Formula:	C ₃₁ H ₃₇ NO ₄
Molecular Weight:	487.63
Target:	Phospholipase
Pathway:	Metabolic Enzyme/Protease
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 : 100 mg/mL (205.07 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		1 mM		2.0507 mL	10.2537 mL	20.5074 mL
		5 mM		0.4101 mL	2.0507 mL	4.1015 mL
		10 mM		0.2051 mL	1.0254 mL	2.0507 mL
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: 2.5 mg/mL (5.13 mM); Clear solution; Need ultrasonic					

BIOLOGICAL ACTIVITY

Description	sPLA2 inhibitor 1, a D-tyrosine derivative, is an orally active, potent secretory phospholipase A ₂ (sPLA ₂) inhibitor with an IC ₅₀ of 29 nM for human nonpancreatic secretory PLA ₂ isoform IIa (hnpsPLA ₂ -IIa). sPLA2 inhibitor 1 has anti-inflammatory activity ^[1] .
IC ₅₀ & Target	sPLA2 29 nM (IC ₅₀)
In Vivo	sPLA2 inhibitor 1 (compound 2b; oral; 5 mg/kg/day; on Days 10-13 after inoculation with arthritogen) shows substantial inhibition of the oedema. Drug-treated rats shows mild capsular oedema and minimal infiltration of macrophages into the red pulp ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Karl A Hansford, et al. D-Tyrosine as a chiral precursor to potent inhibitors of human nonpancreatic secretory phospholipase A2 (IIa) with antiinflammatory activity. Chembiochem. 2003 Mar 3;4(2-3):181-5.

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

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