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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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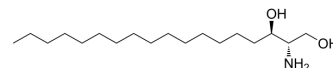
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D-Erythro-dihydrosphingosine

Cat. No.:	HY-W019838
CAS No.:	764-22-7
Molecular Formula:	C ₁₈ H ₃₉ NO ₂
Molecular Weight:	301.51
Target:	Endogenous Metabolite; Phospholipase
Pathway:	Metabolic Enzyme/Protease
Storage:	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro	Ethanol : 50 mg/mL (165.83 mM; Need ultrasonic)				
	DMSO : 10 mg/mL (33.17 mM; ultrasonic and warming and heat to 60°C)				
	Preparing Stock Solutions	Mass Solvent Concentration	1 mg	5 mg	10 mg
		1 mM	3.3166 mL	16.5832 mL	33.1664 mL
		5 mM	0.6633 mL	3.3166 mL	6.6333 mL
10 mM		0.3317 mL	1.6583 mL	3.3166 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% EtOH >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (8.29 mM); Clear solution				
	2. Add each solvent one by one: 10% EtOH >> 90% corn oil Solubility: ≥ 2.5 mg/mL (8.29 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1 mg/mL (3.32 mM); Clear solution				
	4. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 1 mg/mL (3.32 mM); Clear solution				
	5. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1 mg/mL (3.32 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	D-Erythro-dihydrosphingosin directly inhibits cytosolic phospholipase A ₂ α (cPLA ₂ α) activity.
IC ₅₀ & Target	Human Endogenous Metabolite

In Vitro

D-Erythro-dihydrosphingosine (D-erythro-DHS) significantly inhibits mastoparan-, but not Na_3VO_4^- , stimulated arachidonic acid release in PC12 cells. D-Erythro-dihydrosphingosine at 100 μM slightly inhibits [^3H]Arachidonic acid release, and 5 μM Ionomycin alone stimulates the release significantly. In the presence of 5 μM Ionomycin, 100 μM C2-ceramide stimulates the release, but D-Erythro-dihydrosphingosine (100 μM) inhibits the release. D-Erythro-dihydrosphingosine inhibits arachidonic acid release in cells and/or cPLA $_2\alpha$ activity^[1].

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

REFERENCES

[1]. Nakamura H, et al. Inhibition of arachidonic acid release and cytosolic phospholipase A2 alpha activity by D-erythro-sphingosine. Eur J Pharmacol. 2004 Jan 19;484(1):9-17.

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

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