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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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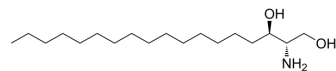
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D-Erythro-dihydrospingosine

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	Solvent Concentration	Mass		
		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

- 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
- Add each solvent one by one: 10% EtOH >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (8.29 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 1 mg/mL (3.32 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 1 mg/mL (3.32 mM); Clear solution
- 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-dihydrospingosin 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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