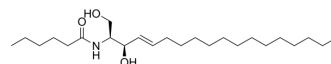


C6 Ceramide

Cat. No.:	HY-19542		
CAS No.:	124753-97-5		
Molecular Formula:	C ₂₄ H ₄₇ NO ₃		
Molecular Weight:	397.63		
Target:	Apoptosis		
Pathway:	Apoptosis		
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 (251.49 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	2.5149 mL	12.5745 mL	25.1490 mL
	5 mM	0.5030 mL	2.5149 mL	5.0298 mL
	10 mM	0.2515 mL	1.2575 mL	2.5149 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 (6.29 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.29 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

C6-ceramide, a ceramide pathway activator, shows activity against a variety of cancer cell lines. C6-ceramide can be used as an adjuvant for chemotherapeutic agents, to enhance anti-tumor effects^{[1][2]}.

CUSTOMER VALIDATION

-
- Sci Total Environ. 2024 Mar 1:923:171405.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Zhu Q, et, al. C6-ceramide synergistically potentiates the anti-tumor effects of histone deacetylase inhibitors via AKT dephosphorylation and α -tubulin hyperacetylation both in vitro and in vivo. Cell Death Dis. 2011 Jan 27;2(1):e117.

[2]. Liu L, et, al. C6-ceramide treatment inhibits the proangiogenic activity of multiple myeloma exosomes via the miR-29b/Akt pathway. J Transl Med. 2020 Aug 3;18(1):298.

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

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