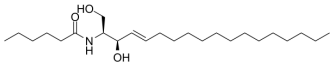
C6 Ceramide

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 / Mass / Concentration	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

1. 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
2. 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
3. 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].

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.

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