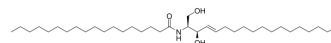


C18-Ceramide

Cat. No.:	HY-100355		
CAS No.:	2304-81-6		
Molecular Formula:	C ₃₆ H ₇₁ NO ₃		
Molecular Weight:	565.95		
Target:	Endogenous Metabolite		
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

Ethanol : 10 mg/mL (17.67 mM; Need ultrasonic)
 DMF : 1 mg/mL (1.77 mM; Need ultrasonic)
 DMSO : < 1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble or slightly soluble)

	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.7669 mL	8.8347 mL	17.6694 mL
	5 mM	0.3534 mL	1.7669 mL	3.5339 mL
	10 mM	0.1767 mL	0.8835 mL	1.7669 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

C18-Ceramide can promote exocytosis of glutamate from damaged neurons. C18-Ceramide promotes cell death in glioma cells. Ceramides is involved in diverse cellular functions, such as differentiation, cell cycle progression, cell-cell adhesion, senescence, and apoptosis^[1].

REFERENCES

- [1]. Tang N, et al. Differential effects of ceramide species on exocytosis in rat PC12 cells. *Exp Brain Res*. 2007 Nov;183(2):241-7.
- [2]. Wang Z, et al. Overexpression of ceramide synthase 1 increases C18-ceramide and leads to lethal autophagy in human glioma. *Oncotarget*. 2017 Oct 23;8(61):104022-104036.

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

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