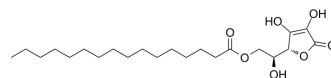


Ascorbyl palmitate

Cat. No.:	HY-B0987		
CAS No.:	137-66-6		
Molecular Formula:	C ₂₂ H ₃₈ O ₇		
Molecular Weight:	414.53		
Target:	Reactive Oxygen Species; Endogenous Metabolite		
Pathway:	Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (241.24 mM; Need ultrasonic)
 H₂O : < 0.1 mg/mL (insoluble)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.4124 mL	12.0619 mL	24.1237 mL
5 mM	0.4825 mL	2.4124 mL	4.8247 mL
10 mM	0.2412 mL	1.2062 mL	2.4124 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (6.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Ascorbyl palmitate is an ester formed from ascorbic acid and palmitic acid creating an vitamin C, it is also used as an antioxidant food additive.

CUSTOMER VALIDATION

- Cell. 2023 Jun 22;186(13):2929-2949.e20.
- Cell Metab. 2019 Sep 3;30(3):573-593.e8.
- The Pennsylvania State University. 2023 May 30.

See more customer validations on www.MedChemExpress.com

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

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