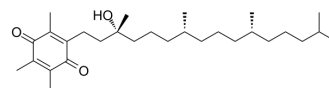


D- α -Tocopherylquinone

Cat. No.:	HY-N2853		
CAS No.:	7559-04-8		
Molecular Formula:	C ₂₉ H ₅₀ O ₃		
Molecular Weight:	446.71		
Target:	Others		
Pathway:	Others		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (111.93 mM; ultrasonic and warming and heat to 60°C)

Concentration	Solvent	Mass	1 mg	5 mg	10 mg
			Concentration	1 mg	5 mg
1 mM			2.2386 mL	11.1929 mL	22.3859 mL
5 mM			0.4477 mL	2.2386 mL	4.4772 mL
10 mM			0.2239 mL	1.1193 mL	2.2386 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: \geq 2.5 mg/mL (5.60 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE- β -CD in saline)
Solubility: 2.5 mg/mL (5.60 mM); Suspended solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: \geq 2.5 mg/mL (5.60 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D- α -Tocopherylquinone (α -Tocopherylquinone) is a quinone, can be isolated from *Phaeodactylum tricornutum*. D- α -Tocopherylquinone is a oxidation product of α -Tocopherol (vitamin E). D- α -Tocopherylquinone can act as an anticoagulant and as an antioxidant^{[1][2]}.

REFERENCES

[1]. K Shimazaki, et al. Studies on electron transfer systems in the marine diatom *Phaeodactylum tricornutum*. II. Identification and determination of quinones, cytochromes, and flavins. *J Biochem.* 1978 Jun;83(6):1639-42.

[2]. M K Horwitt. Vitamin E: a reexamination. *Am J Clin Nutr.* 1976 May;29(5):569-78.

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

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