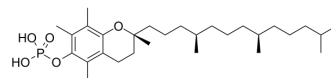


α-Tocopherol phosphate

Cat. No.:	HY-16686		
CAS No.:	38976-17-9		
Molecular Formula:	C ₂₉ H ₅₁ O ₅ P		
Molecular Weight:	510.69		
Target:	Others		
Pathway:	Others		
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 (195.81 mM)
 H₂O : < 0.1 mg/mL (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.9581 mL	9.7907 mL	19.5814 mL
	5 mM	0.3916 mL	1.9581 mL	3.9163 mL
	10 mM	0.1958 mL	0.9791 mL	1.9581 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 (4.90 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (4.90 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

α-Tocopherol phosphate is the compound demonstrating the highest vitamin E activity, which is available both in its natural form as RRR-alpha-tocopherol isolated from plant sources.

CUSTOMER VALIDATION

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- Cell Death Dis. 2022 Jan 21;13(1):73.
 - Appl Mater Today. 2021, 101066.
 - Nigerian Journal of Scientific Research. 18 (3): 2019.

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Jensen SK, et al. Alpha-tocopherol stereoisomers. Vitam Horm. 2007;76:281-308.
- [2]. Manor D, et al. The alpha-tocopherol transfer protein. Vitam Horm. 2007;76:45-65.
- [3]. Wu Z, Zheng X, Meng L, et al. α -Tocopherol, especially α -tocopherol phosphate, exerts antiapoptotic and angiogenic effects on rat bone marrow-derived endothelial progenitor cells under high-glucose and hypoxia conditions. J Vasc Surg. 2018;67(4):1263-1273
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Caution: Product has not been fully validated for medical applications. For research use only.

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