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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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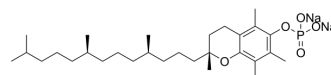
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α-Tocopherol phosphate disodium

Cat. No.:	HY-W127530
CAS No.:	60934-46-5
Molecular Formula:	C ₂₉ H ₄₉ Na ₂ O ₅ P
Molecular Weight:	554.65
Target:	Apoptosis; Reactive Oxygen Species
Pathway:	Apoptosis; Immunology/Inflammation; Metabolic Enzyme/Protease; NF-κB
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 4.55 mg/mL (8.20 mM; ultrasonic and warming and adjust pH to 3 with HCl and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.8029 mL	9.0147 mL	18.0294 mL
5 mM	0.3606 mL	1.8029 mL	3.6059 mL
10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

α-Tocopherol phosphate (alpha-Tocopherol phosphate) disodium, a promising antioxidant, can protect against long-wave UVA1 induced cell death and scavenge UVA1 induced ROS in a skin cell model. α-Tocopherol phosphate disodium possesses therapeutic potential in the inhibition of apoptosis and increases the migratory capacity of endothelial progenitor cells under high-glucose/hypoxic conditions and promotes angiogenesis^{[1][2]}.

CUSTOMER VALIDATION

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

See more customer validations on www.MedChemExpress.com

REFERENCES

- [1]. Saleh MM, et al. The photoprotective properties of α -tocopherol phosphate against long-wave UVA1 (385 nm) radiation in keratinocytes in vitro. *Sci Rep.* 2021 Nov 17;11(1):22400.
- [2]. Wu Z, 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 Apr;67(4):1263-1273.e1.
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Caution: Product has not been fully validated for medical applications. For research use only.

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