

Product Datasheet

α-Tocopherol phosphate (disodium)

Catalog No. **BP-02402A** · CAS **60934-46-5** · Form **salt** · **phosphate** · Physical state **solid** · Color **White to off-white** · Version **1.0** · Revision **2026-09-10**

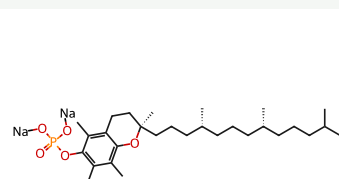
FOR RESEARCH USE ONLY. NOT FOR HUMAN OR VETERINARY USE.

Target Apoptosis; Reactive Oxygen Species (ROS)	Research area Cardiovascular Disease; Cancer
---	--

Molecular formula **C₂₉H₄₉Na₂O₅P**

Molecular weight **554.6497**

STRUCTURE



DESCRIPTION

α-Tocopherol phosphate disodium is an antioxidant that protects against long-wave UVA1 induced cell death and scavenge UVA1 induced ROS in a skin cell model. α-Tocopherol phosphate disodium exhibits angiogenesis-promoting activity .

BIOLOGICAL ACTIVITY

In Vitro

α-Tocopherol phosphate disodium (100 μM, 24 h) inhibits high Glucose (HY-B0389)/ischemic-induced apoptosis and migration in endothelial progenitor cells, promotes capillary-like tube formation through regulation of Bcl-2, Akt, NF-κB, p38MAPK and JNK expressions.

In Vivo

α-Tocopherol phosphate disodium (100 μM, intramuscular, single dose) exhibits angiogenesis-promoting activity in Streptozotocin (HY-13753) and ligation induced rats type 2 diabetes and ischemia models.

SOLUBILITY

Soluble in DMSO : 4 mg/mL

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.

Tel: +86 20 31130026 · Fax: +86 20 36822386 · tech@biochemprobe.com · www.biochemprobe.com

BiochemProbe is the catalog brand of Guangzhou Yuyuan Biotech Co., Ltd. · For research use only.

Lot CoA and SDS are separate documents.