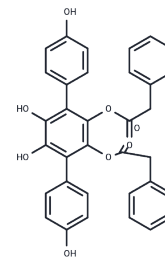


Vialinin A

Chemical Properties

CAS No. :	858134-23-3
Formula:	C ₃₄ H ₂₆ O ₈
Molecular Weight:	562.57
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Vialinin A (Terrestrin A), a p-terphenyl compound, exhibits antioxidant properties and acts as a potent inhibitor of TNF- α , USP4, USP5, and sentrin/SUMO-specific protease 1 (SEN1). Its efficacy in autoimmune diseases and cancer research is noteworthy, highlighting its potential therapeutic applications.
Targets(IC50)	E1/E2/E3 Enzyme,Nrf2,DUB,TNF

Solubility Information

Solubility	DMSO: 50 mg/mL (88.88 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (4.44 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7776 mL	8.8878 mL	17.7756 mL
5 mM	0.3555 mL	1.7776 mL	3.5551 mL
10 mM	0.1778 mL	0.8888 mL	1.7776 mL
50 mM	0.0356 mL	0.1778 mL	0.3555 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Ji-Kai Liu, et al. Natural terphenyls: developments since 1877. *Chem Rev.* 2006 Jun;106(6):2209-23.
- Jie Xu, et al. Ubiquitously specific protease 4 inhibitor-Vialinin A attenuates inflammation and fibrosis in S100-induced hepatitis mice through Rheb/mTOR signalling. *J Cell Mol Med.* 2021 Jan;25(2):1140-1150.
- Himangshu Sonowal, et al. Vialinin A, an Edible Mushroom-Derived p-Terphenyl Antioxidant, Prevents VEGF-Induced Neovascularization In Vitro and In Vivo. *Oxid Med Cell Longev.* 2018 Feb 6;2018:1052102.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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