

Certificate of Analysis

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Product Name: Vialinin A

Catalog No.: 4988

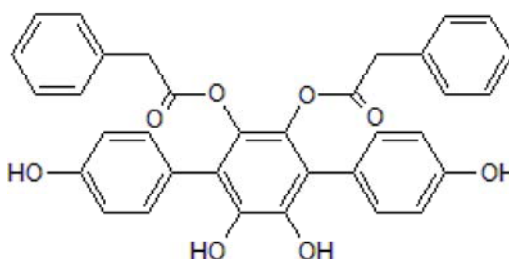
Batch No.: 4

CAS Number: 858134-23-3

IUPAC Name: 1,1'-(4,4'',5',6'-Tetrahydroxy[1,1':4',1''-terphenyl]-2',3'-diyl) benzeneacetic acid ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₄H₂₆O₈
Batch Molecular Weight: 562.57
Physical Appearance: Grey solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Inhibitor of ubiquitin-specific peptidase 4 (USP4), USP5/isopeptidase T (IsoT) and UCH-L1 deubiquitinating enzyme (DUB) activity (IC₅₀ values are 1.5, 5.9 and 22.3 μM, respectively). Shows no significant inhibition of UCH-L3, USP2, and USP8 activities. Decreases release of TNF-α (IC₅₀ = 0.09 nM) from RBL-2H3 mast cells. Displays anticancer activity decreasing viability in human colonic carcinoma cells. Inhibits VEGF-induced growth and proliferation of HUVECs and production of ROS, cytokines and chemokines in vitro. Also inhibits neovascularization in a mouse model.

Physical and Chemical Properties:

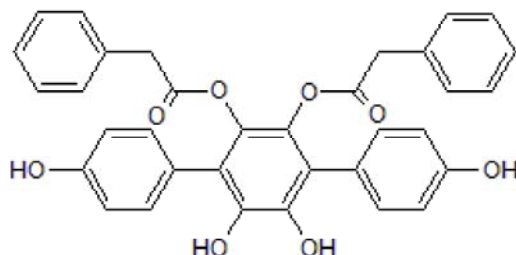
Batch Molecular Formula: C₃₄H₂₆O₈

Batch Molecular Weight: 562.57

Physical Appearance: Grey solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Sonowal et al (2018) Vialinin A, an edible mushroom-derived p-terphenyl antioxidant, prevents VEGF-induced neovascularization *in vitro* and *in vivo*. *Oxid Med Cell Longev* 1052102. PMID: 29541344.

Okada et al (2013) Vialinin A is a ubiquitin-specific peptidase inhibitor. *Bioorg.Med.Chem.Lett.* **23** 4328. PMID: 23791076.

Onose et al (2012) Inhibitory effects of vialinin A and its analog on tumor necrosis factor-α release and production from RBL-2H3 cells. *Cell Immunol.* **279** 140. PMID: 23246504.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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