

Product Name: Prostratin

Catalog No.: 5739

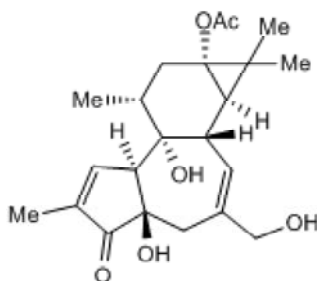
Batch No.: 3

CAS Number: 60857-08-1

IUPAC Name: (1a*R*,1b*S*,4a*R*,7a*S*,7b*R*,8*R*,9a*S*)-9a-(Acetyloxy)-1,1a,1b,4,4a,7a,7b,8,9,9a-decahydro-4a,7b-dihydroxy-3-(hydroxymethyl)-1,1,6,8-tetramethyl-5*H*-cyclopropa[3,4]benz[1,2-*e*]azulen-5-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₃₀O₆
Batch Molecular Weight: 390.47
Physical Appearance: Off White film
Solubility: DMSO to 75 mM
 ethanol to 25 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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IUPAC Name: (1aR,1bS,4aR,7aS,7bR,8R,9aS)-9a-(Acetyloxy)-1,1a,1b,4,4a,7a,7b,8,9,9a-decahydro-4a,7b-dihydroxy-3-(hydroxymethyl)-1,1,6,8-tetramethyl-5H-cyclopropa[3,4]benz[1,2-e]azulen-5-one

Description:

PKC activator. Inhibits growth and induces differentiation of AML cell lines. Enhances cytarabine-induced differentiation of AML cells. Inhibits tumorigenesis in KRAS mutant pancreatic cancer cells and reduces tumor growth in mouse pancreatic tumor models. Also NF-κB activator. Activates HIV gene expression in T cells. Orally available.

Physical and Chemical Properties:

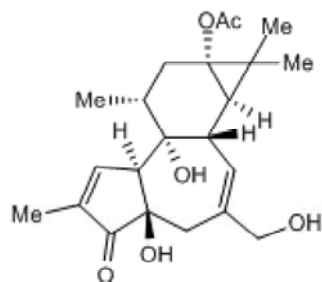
Batch Molecular Formula: C₂₂H₃₀O₆

Batch Molecular Weight: 390.47

Physical Appearance: Off White film

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 75 mM

ethanol to 25 mM

This product is supplied in a sealed glass ampoule as a colourless film, please refer to the Tocris catalogue for opening instructions. The compound can be hard to visualize therefore 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.

References:

Shen et al (2015) The protein kinase C agonist prostratin induces differentiation of human myeloid leukemia cells and enhances cellular differentiation by chemotherapeutic agents. *Cancer Lett.* **356** 686. PMID: 25449427.

Wang et al (2015) K-Ras promotes tumorigenicity through suppression of non-canonical Wnt signaling. *Cell* **163** 1237. PMID: 26590425.

Wang et al (2014) Protein kinase D3 is essential for prostratin-activated transcription of integrated HIV-1 provirus promoter via NF-κB signaling pathway. *BioMed Res.Int.* **2014** 968027. PMID: 25136641.

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