

**Product Name:** Prostratin

**Catalog No.:** 5739

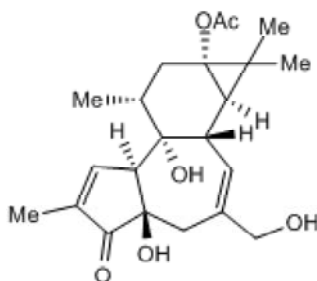
**Batch No.:** 5

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

<b>Batch Molecular Formula:</b>	C <sub>22</sub> H <sub>30</sub> O <sub>6</sub>
<b>Batch Molecular Weight:</b>	390.47
<b>Physical Appearance:</b>	White solid
<b>Solubility:</b>	DMSO to 75 mM ethanol to 25 mM
<b>Storage:</b>	Store at -20°C
<b>Batch Molecular Structure:</b>	



## 2. ANALYTICAL DATA

<b>HPLC:</b>	Shows 99.6% purity
<b>Mass Spectrum:</b>	Consistent with structure

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

**Product Name:** Prostratin

**Catalog No.:** 5739

**Batch No.:** 5

CAS Number: 60857-08-1

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:**

Prostratin is a 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:**

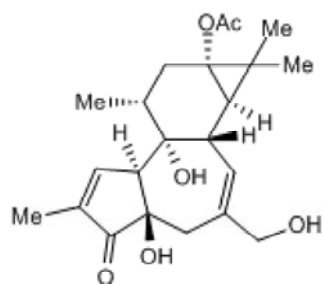
Batch Molecular Formula: C<sub>22</sub>H<sub>30</sub>O<sub>6</sub>

Batch Molecular Weight: 390.47

Physical Appearance: White solid

**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.

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

**bio-techne.com**

info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

info.cn@bio-techne.com

Tel: +86 (21) 52380373

**Europe Middle East Africa**

Tel: +44 (0)1235 529449

**Rest of World**

www.tocris.com/distributors

Tel:+1 612 379 2956