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Certificate of Analysis

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Product Name: Gedunin

Catalog No.: 3387 Batch No.: 4

CAS Number: IUPAC Name: 2753-30-2

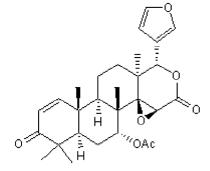
(1S,3aS,4aR,4bS,5R,6aR,10aR,10bR,12aS)-5-(Acetyloxy)-1-(3-furanyl)-1,5,6,6a,7,10a,10b,11,12,12a,decahydro-4b,7,7,10a,12a,-pentamethyloxireno[c]phenanthro[1,2-d]pyran-3,8(3aH,4bH)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₂₈H₃₄O₇ 482.57 White solid DMSO to 100 mM ethanol to 10 mM with gentle warming Store at +4°C

Storage:

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: HPLC: ¹H NMR: Mass Spectrum: Optical Rotation: Microanalysis: $\label{eq:Rf} \begin{array}{l} \mathsf{R}_{\mathsf{f}} = 0.5 \ (5:3:2 \ \mathsf{petrol:DCM:EtOAc}) \\ \text{Shows 98.9\% purity} \\ \text{Consistent with structure} \\ \text{Consistent with structure} \\ [\alpha]_{\mathsf{D}} = +67.1 \ (\mathsf{Concentration} = 1, \ \mathsf{Solvent} = \mathsf{Methanol}) \\ & \quad \mathsf{Carbon} \ \mathsf{Hydrogen} \ \mathsf{Nitrogen} \\ \text{Theoretical} \ 69.69 \ \ 7.1 \\ \text{Found} \ \ 69.75 \ \ 7.15 \ \ 0.1 \end{array}$

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

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Product Information

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Product Name: Gedunin

2753-30-2

Catalog No.: 3387

4

CAS Number: IUPAC Name:

(1S,3aS,4aR,4bS,5R,6aR,10aR,10bR,12aS)-5-(Acetyloxy)-1-(3-furanyl)-1,5,6,6a,7,10a,10b,11,12,12a,decahydro-4b,7,7,10a,12a,-pentamethyloxireno[c]phenanthro[1,2-d]pyran-3,8(3aH,4bH)-dione

Description:

Gedunin is a naturally occurring Hsp90 inhibitor. Induces Hsp90dependent client protein degradation and displays antiproliferative activity in vitro (IC₅₀ values are 3.22, 8.84 and 16.8 μ M in SKBr3, MCF-7 and CaCo-2 cancer cell lines respectively). Decreases ovarian cancer cell proliferation in vitro and may enhance cisplatin-induced reduction in proliferation (CAT.No 3387). Also exhibits antimalarial activity against Plasmodium falciparum (IC₅₀ values are 0.14 and 3.1 μ M in parasite development and [³H]-hypoxanthine uptake assays respectively).

Physical and Chemical Properties:

Batch Molecular Formula: C₂₈H₃₄O₇ Batch Molecular Weight: 482.57 Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at +4°C Solubility & Usage Info:

DMSO to 100 mM ethanol to 10 mM with gentle warming

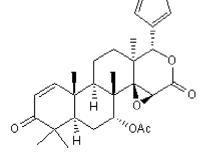
Stability and Solubility Advice:

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Kamath *et al* (2009) Gedunin, a novel natural substance, inhibits ovarian cancer cell proliferation. Int J Gynecol Cancer. **19** 1564. PMID: 19955938.

Brandt *et al* (2008) Gedunin, a novel Hsp90 inhibitor: semisynthesis of derivatives and preliminary structure-activity relationships. J.Med.Chem. **51** 6495. PMID: 18816111.

Lee et al (2008) Antimalarial activity of anthothecol derived from Khaya anthotheca (Meliaceae). Phytomedicine 15 533. PMID: 17913482.

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