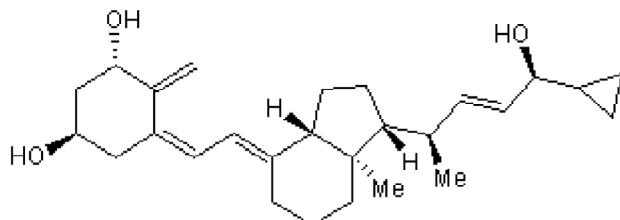


Certificate of Analysiswww.tocris.com**Product Name:** Calcipotriol**Catalog No.:** 2700**Batch No.:** 9

CAS Number: 112965-21-6

IUPAC Name: (1 α ,3 β ,5 Z ,7 E ,22 E ,24 S)-24-Cyclopropyl-9,10-secochola-5,7,10(19),22-tetraene-1,3,24-triol**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₂₇H₄₀O₃**Batch Molecular Weight:** 412.6**Physical Appearance:** Off-white solid**Solubility:** DMSO to 100 mM
ethanol to 100 mM**Storage:** Store at -20°C**Batch Molecular Structure:****2. ANALYTICAL DATA****HPLC:** Shows 98.9% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 78.6 9.77 0

Found 78.3 9.73 0

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

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Product Information

www.tocris.com

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Catalog No.: 2700

Batch No.: 9

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IUPAC Name: (1 α ,3 β ,5 Z ,7 E ,22 E ,24 S)-24-Cyclopropyl-9,10-secochola-5,7,10(19),22-tetraene-1,3,24-triol

Description:

Calcipotriol is a vitamin D₃ analog that displays minimal effects on calcium homeostasis. Regulates cell differentiation and proliferation; exhibits antiproliferative activity against human HL-60, HL60/MX2, keratinocytes, MCF-7, T47D, SCC-25, and mouse WEHI-3 cancer cell lines. Calcipotriol suppresses skin cancer development in mice in a thymic stromal lymphopoietin (TSLP)-dependent manner. Calcipotriol promotes the differentiation of keratinocytes. In human T cells and in psoriatic skin, Calcipotriol increases IL-10 secretion, induces secretion of type 2 cytokines by T cells and modulates the differentiation of dendritic cells and T cells. Please see product specific page on www.tocris.com for full description.

Physical and Chemical Properties:

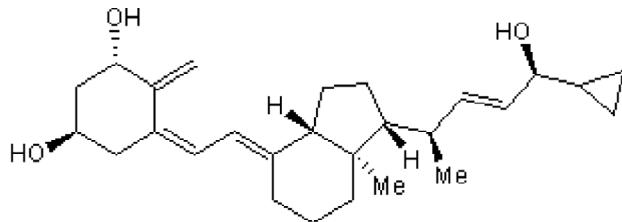
Batch Molecular Formula: C₂₇H₄₀O₃

Batch Molecular Weight: 412.6

Physical Appearance: Off-white solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Cunningham *et al* (2017) Randomized trial of calcipotriol combined with 5-fluorouracil for skin cancer precursor immunotherapy. *J.Clin.Invest.* **127** 106. PMID: 27869649.

Lovato *et al* (2016) Calcipotriol and betamethasone dipropionate exert additive inhibitory effects on the cytokine expression of inflammatory dendritic cell-Th17 cell axis in psoriasis. *J.Dermatol.Sci.* **81** 153. PMID: 26794805.

Wietrzyk *et al* (2007) Antitumor properties of diastereomeric and geometric analogs of vitamin D3. *Anticancer Drugs* **18** 447. PMID: 17351397.

Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 100 mM

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.

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