
Product Data Sheet

Product Name: 24R-Calcipotriol

Cat. No.: GC35080

Chemical Properties

Cas. No. 112827-99-3

SMILES O[C@H]1C[C@H](O)C(/C(C1)=C\C=C2[C@]3([H])CC[C@H]([C@H](C)/C=C/[C@@H](C4CC4)O)[C@@]3(C)CCC\2)=C

Formula C₂₇H₄₀O₃ M.Wt 412.6

Solubility DMSO: ≥ 100 mg/mL (242.37 mM) Storage -20°C, protect from light, stored under nitrogen, unstable in solution, ready to use.

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available sizes: ship with RT, or blue ice upon request.

Structure

Background

24R-Calcipotriol (PRI 2202) is an impurity of Calcipotriol; Calcipotriol (MC 903; Calcipotriene) is a ligand of VDR-like receptors. IC₅₀ value: Target: Vitamin D₃ analog that displays minimal effects on calcium homeostasis. Regulates cell differentiation and proliferation; Calcipotriol (MC 903; Calcipotriene) exhibits antiproliferative activity against human HL-60, HL60/MX2, MCF-7, T47D, SCC-25 and mouse WEHI-3 cancer cell lines.

[1]. Gocek, Elzbieta; Kielbinski, Marek; Bourska, Hanna et al. Different susceptibilities to 1,25-dihydroxyvitamin D₃-induced differentiation of AML cells carrying various mutations. *Leukemia Research* (2010), 34(5), 649-657. [2]. Gocek, Elzbieta; Kielbinski, Marek; Wylob, Paulina et al. Side-chain modified vitamin D analogs induce rapid accumulation of VDR in the cell nuclei proportionately to their differentiation-inducing potential. *Steroids* (2008), 73(14), 1359-1366. [3]. Wietrzyk, Joanna; Nevozhay, Dmitry; Filip, Beata et al. The antitumor effect of lowered doses of cytostatics combined with new analogs of vitamin D in mice. *Anticancer Research* (2007), 27(5A), 3387-3398. [4].

Caution: Product has not been fully validated for medical applications. For research use only.

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Wietrzyk, Joanna; Chodynski, Michal; Fitak, Hanna et al. Antitumor properties of diastereomeric and geometric analogs of vitamin D3. *Anti-Cancer Drugs* (2007), 18(4), 447-457.

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