

Product Data Sheet

Product Name: Impurity F of Calcipotriol

Cat. No.: GC36302

Chemical Properties

Cas. No. 112875-61-3

SMILES C[C@]1(CCC/2)[C@@](C2=C\C=C3C[C@@H](O[Si](C)(C)C(C)(C)C[C@H](O[Si](C)(C)C(C)(C)C)\3=C)([H])CC[C@]1([H])[C@H](C)/C=C/[C@H](C4CC4)O

Formula C₃₉H₆₈O₃Si₂ M.Wt 641.13

Solubility Soluble in DMSO 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 size: ship with RT, or blue ice upon request.

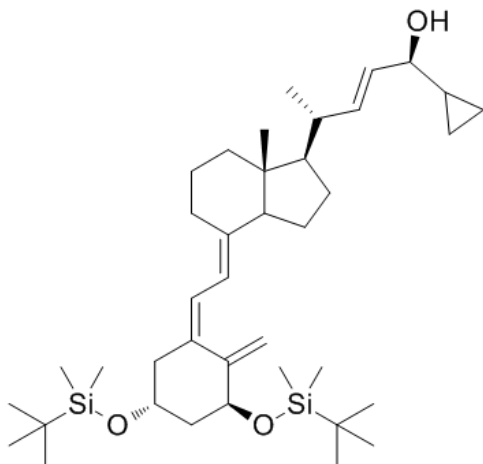
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

Impurity F 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]. Binderup (1993) Comparison of calcipotriol with selected metabolites and analogues of vitamin D3: effects on cell growth regulation in vitro and calcium metabolism in vivo. *Pharmacol.Toxicol.* 72 240. [2]. Knutson et al (1997) Pharmacokinetics and systemic effect on calcium homeostasis of 1a,24-dihydroxyvitamin D2 in rats. *Biochem.Pharmacol.* 53 829. [3]. Wietrzyk et al (2007) Antitumor properties of diastereomeric and geometric analogs of vitamin D3. *Anticancer Drugs* 18 447.111 [4]. Lise Binderup,, Erik Bramm. Effects of a novel vitamin D analogue MC 903 on cell proliferation and differentiation in vitro and on calcium metabolism in vivo. *Biochemical Pharmacology*. Volume 37,

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