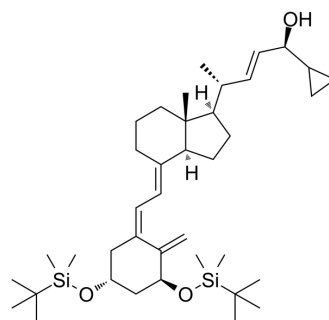


## Impurity F of Calcipotriol

Cat. No.:	HY-15265
CAS No.:	112875-61-3
Molecular Formula:	C <sub>39</sub> H <sub>66</sub> O <sub>3</sub> Si <sub>2</sub>
Molecular Weight:	641.13
Target:	VD/VDR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	-20°C, protect from light, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 25 mg/mL (38.99 mM); ultrasonic and warming and heat to 60°C						
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg	
				1 mM	1.5597 mL	7.7987 mL	15.5975 mL
				5 mM	0.3119 mL	1.5597 mL	3.1195 mL
				10 mM	0.1560 mL	0.7799 mL	1.5597 mL
Please refer to the solubility information to select the appropriate solvent.							
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 1.25 mg/mL (1.95 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (1.95 mM); Clear solution						

### BIOLOGICAL ACTIVITY

Description	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.
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### REFERENCES

- [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 1α,24-dihydroxyvitamin D2 in rats. *Biochem.Pharmacol.* 53 829.

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[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, Issue 5, 1 March 1988, Pages 889-895

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA