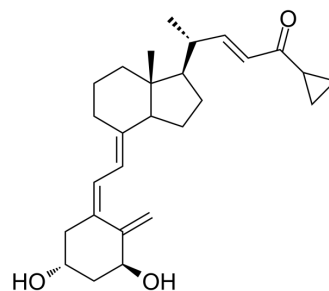


MC 1046

Cat. No.:	HY-15264
CAS No.:	126860-83-1
Molecular Formula:	C ₂₇ H ₃₈ O ₃
Molecular Weight:	410.59
Target:	VD/VDR
Pathway:	Vitamin D Related/Nuclear Receptor
Storage:	4°C, protect from light, stored under nitrogen * The compound is unstable in solutions, freshly prepared is recommended.



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (121.78 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.4355 mL	12.1776 mL	24.3552 mL
	5 mM	0.4871 mL	2.4355 mL	4.8710 mL
	10 mM	0.2436 mL	1.2178 mL	2.4355 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MC 1046(Impurity A of Calcipotriol) 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.

CUSTOMER VALIDATION

- J Steroid Biochem Mol Biol. 2019 Apr;188:172-184.

See more customer validations on www.MedChemExpress.com

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 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]. P.J. Marie, D. Connes, M. Hott, L. Miravet. Comparative effects of a novel Vitamin D Analogue MC-903 and 1,25-dihydroxyvitamin D3 on alkaline phosphatase activity, osteocalcin and DNA synthesis by human osteoblastic cells in culture. *Bone*. Volume 11, Issu
-

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

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