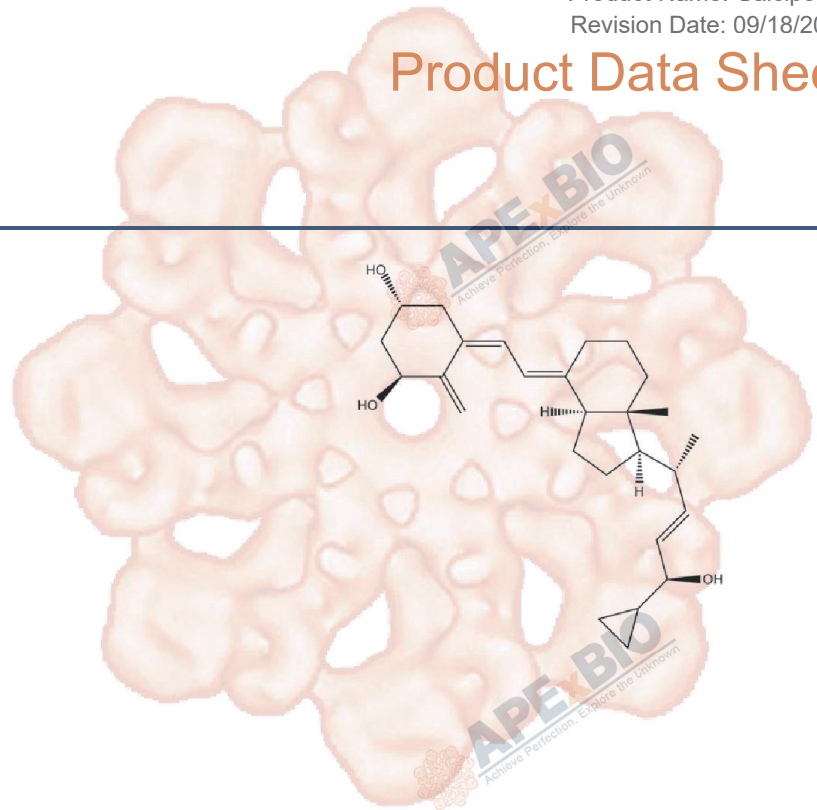


Product Data Sheet

Calcipotriol

Cat. No.:	A3271
CAS No.:	112965-21-6
Formula:	C ₂₇ H ₄₀ O ₃
M.Wt:	412.60
Synonyms:	MC 903; Calcipotriene
Target:	Vitamin D Related
Pathway:	VD/VDR
Storage:	Store at -20°C



Solvent & Solubility

≥ 16.7 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	Concentration			
	1 mM	2.4237 mL	12.1183 mL	24.2365 mL
	5 mM	0.4847 mL	2.4237 mL	4.8473 mL
	10 mM	0.2424 mL	1.2118 mL	2.4237 mL

Please refer to the solubility information to select the appropriate solvent

Biological Activity

Shortsummary

Vitamin D3 analog, regulates cell differentiation and proliferation

IC₅₀ & Target

In Vitro

Cell Viability Assay

Cell Line: Human HL-60 and MCF-7 cell lines

Preparation method:

Soluble in DMSO > 16.7mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Reacting conditions:

1, 10, 100, 1000 nM for 24 h

	Applications:	Calcipotriol revealed a strong proliferation inhibition in HL-60 cells, the potentiation of the antiproliferative effect of CIS(cisplatin) could be observed. In MCF-7 cells, a lower dose of TX (tamoxifen) in combination with calcipotriol caused an increase in the G0/G1 and a decrease in the G2/M stage as compared to TX alone.
In Vivo	Animal experiment	
	Dosage form:	Foam of calcipotriol 50µg/g plus betamethasone 0.5 mg/g, 4, 8, 12 weeks, topical treatment
	Applications:	A greater proportion of patients achieved modified Psoriasis Area and Severity Index 75 and 90 at weeks 4, 8, and 12 with the calcipotriol 50µg/g plus betamethasone 0.5 mg/g (Cal/BD) foam.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Milczarek M1, Chodyński M, et al, Synthesis and Biological Activity of Diastereomeric and Geometric Analogs of Calcipotriol, PRI-2202 and PRI-2205, Against Human HL-60 Leukemia and MCF-7 Breast Cancer Cells. *Cancers (Basel)*. 2013 Oct 31;5(4):1355-78. doi: 10.3390/cancers5041355.
- [2]. Paul C1, Leonardi C2, et al, Calcipotriol Plus Betamethasone Dipropionate Aerosol Foam in Patients with Moderate-to-Severe Psoriasis: Sub-Group Analysis of the PSO-ABLE Study. *Am J Clin Dermatol*. 2017 Jun;18(3):405-411. doi: 10.1007/s40257-017-0258-0.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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