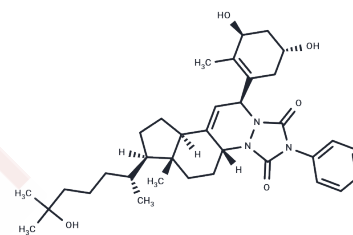


Impurity C of Calcitriol

Chemical Properties

CAS No. :	86307-44-0
Formula:	C ₃₅ H ₄₉ N ₃ O ₅
Molecular Weight:	591.78
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Impurity C of Calcitriol is an impurity of Calcitriol. Impurity C of Calcitriol is used in the synthesis of vitamin D3.
Targets(IC50)	Vitamin
In vitro	Impurity C of Calcitriol, Calcitriol(1,25-Dihydroxyvitamin D3; Rocaltrol) inhibits cell proliferation in a wide range of cells including breast, prostate, colon, skin, and brain carcinomas and myeloid leukemia cells.

Solubility Information

Solubility	DMSO: 45 mg/mL (76.04 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6898 mL	8.4491 mL	16.8982 mL
5 mM	0.338 mL	1.6898 mL	3.3796 mL
10 mM	0.169 mL	0.8449 mL	1.6898 mL
50 mM	0.0338 mL	0.169 mL	0.338 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Canalejo A, et al. The in vitro effect of calcitriol on parathyroid cell proliferation and apoptosis. J Am Soc Nephrol. 2000 Oct;11(10):1865-1872.

Beer TM, et al. Calcitriol in cancer treatment: from the lab to the clinic. Mol Cancer Ther. 2004 Mar;3(3):373-81. PMID: 15026558.

Krishnan AV, et al. Equivalent anticancer activities of dietary vitamin D and calcitriol in an animal model of breast cancer: importance of mammary CYP27B1 for treatment and prevention. J Steroid Biochem Mol Biol. 2013 Jul;136:289-95.

Alkharfy KM, et al. Calcitriol attenuates weight-related systemic inflammation and ultrastructural changes in the liver in a rodent model. Basic Clin Pharmacol Toxicol. 2013 Jan;112(1):42-9.

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