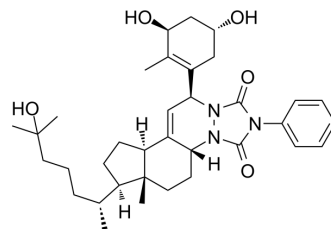


Impurity C of Calcitriol

Cat. No.:	HY-13293
CAS No.:	86307-44-0
Molecular Formula:	C ₃₅ H ₄₉ N ₃ O ₅
Molecular Weight:	591.78
Target:	VD/VDR
Pathway:	Vitamin D Related
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (84.49 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.6898 mL	8.4491 mL	16.8982 mL
	5 mM	0.3380 mL	1.6898 mL	3.3796 mL
	10 mM	0.1690 mL	0.8449 mL	1.6898 mL

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

BIOLOGICAL ACTIVITY

Description

Impurity C of Calcitriol, Calcitriol(1,25-Dihydroxyvitamin D₃; Rocaltrol) is the hormonally active form of vitamin D, Calcitriol is the active metabolite of vitamin D₃ that activates the vitamin D receptor (VDR). IC₅₀ value: Target: vitamin D receptor Calcitriol(1,25-Dihydroxyvitamin D₃; Rocaltrol) displays calcemic actions. Calcitriol stimulates intestinal and renal Ca²⁺ absorption and regulates bone Ca²⁺ turnover. Calcitriol (1,25-Dihydroxyvitamin D₃; Rocaltrol) exhibits antitumor activity; Calcitriol(1,25-Dihydroxyvitamin D₃; Rocaltrol) inhibits in vivo and in vitro cell proliferation in a wide range of cells including breast, prostate, colon, skin and brain carcinomas and myeloid leukemia cells.

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

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