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/Nuclear Receptor |
| Storage: | 4°C, protect from light |
| | * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |

HO NO.

SOLVENT & SOLUBILITY

| | | Solvent Mass Concentration | 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 |

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 receptorCalcitriol(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.

REFERENCES

[1]. Canalejo et al (2000) The in vitro effect of calcitriol on parathyroid cell proliferation and apoptosis. J.Am.Soc.Nephrol. 11 1865. Beer and Myrthue (2004)

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[3]. Krishnan AV, Swami S, Feldman D.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. 2012 Aug 23.

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

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