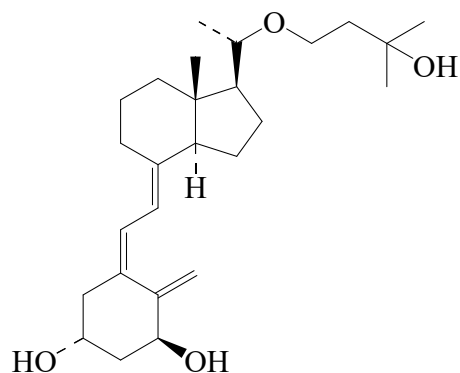




>>Entry Name: Maxacalcitol, INN

Synonym(s): 4-Methylene-5-[2-[octahydro-1-[1-(3-hydroxy-3-methylbutoxy)ethyl]-7*a*-methyl-4*H*-inden-4-ylidene]ethylidene]-1,3-cyclohexanediol, 9Cl. 22-Oxa-9,10-secocholesta-5,7,10(19)-triene-1,3,25-triol. 1,25-Dihydroxy-22-oxavitamin D₃. 22-Oxacalcitriol



CAS Registry Number: 103909-75-7

Related CAS Registry Numbers(s): 169218-34-2

Molecular Formula: C₂₆H₄₂O₄

Molecular Weight: 418.615

Accurate Mass: 418.30831

Percentage Composition: C 74.60%; H 10.11%; O 15.29%

Biological Use/Importance: Inhibits cellular proliferation and stimulates cell differentiation. Possible use as an antipsoriatic agent. Vitamin D₃ analogue

Physical Description: Glass. Characterised spectroscopically

Other Data: Stereochem. is (1*S*,3*R*,5*Z*,7*E*). Analogue of [HLZ50-F](#)

References:

- Murayama, E. *et al.*, *Chem. Pharm. Bull.*, 1986, **34**, 4410-4413; 1992, **40**, 1494-1499; 1993, **41**, 1659-1663, (*synth, pmr, uv, bibl, analogue*)
Eur. Pat., 1986, *Chugai*, 184 112; *CA*, **106**, 84945e, (*synth, pharmacol*)
Abe, J. *et al.*, *FEBS Lett.*, 1987, **226**, 58-62, (*pharmacol*)
Farach-Carson, M.C. *et al.*, *Am. J. Physiol.*, 1993, **265**, F705-F711, (*pharmacol*)
Kanatani, M. *et al.*, *Eur. J. Endocrinol.*, 1995, **133**, 618-625, (*pharmacol*)
Masuda, S. *et al.*, *J. Biol. Chem.*, 1996, **271**, 8700-8708, (*metab*)
Koizumi, H. *et al.*, *J. Dermatol. Sci.*, 1997, **15**, 207-213, (*pharmacol*)