Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Lexacalcitol

Catalog No: tcsc0399

Available Sizes

Size: 1mg

Size: 5mg

Size: 10mg

Size: 25mg

Specifications

CAS No:
131875-08-6

Formula:
$C_{29}H_{48}O_4$

Pathway:
Vitamin D Related

Target:
VD/VDR

Purity / Grade:
>98%

Solubility:
10 mM in DMSO

Alternative Names:
KH 106;KH 1060

Observed Molecular Weight:
460.69

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Product Description

Lexacalcitol (KH1060) is over 100 times more active than 1alpha,25-dihydroxyvitamin D3 [1alpha,25-(OH)2D3], as judged by in vitro antiproliferative and cell differentiating assays.

IC50 value:

Target:

KH1060 metabolism could be blocked by the cytochrome P450 inhibitor, ketoconazole. KH1060 was not an effective competitor of C24 oxidation of 1alpha,25-(OH)2D3. Certain hydroxylated metabolites of KH1060 retained significant biological activity in vitamin D-dependent reporter gene systems (chloramphenicol acetyltransferase). KH 1060 inhibited PBMC proliferation and decreased TNF-alpha levels in IBD patients and this effect was synergistic with anti-TNF-alpha. VDR protein levels were significantly increased by PBMC treatment with KH 1060 or anti-TNF-alpha or their combination in ulcerative colitis (UC) patients, and decreased in Crohn\'s disease (CD) patients, treating the cells with KH 1060. A synergistic inhibition was registered combining KH 1060 and anti-TNF, at well-defined concentrations. 0.1 nM KH 1060 produced a significant decrease in TNF-alpha levels, determined by ELISA, although less remarkable than in the presence of anti-TNF.