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产品名称: **Secalciferol**

产品别名: 司骨化醇; **(24R)-24,25-Dihydroxyvitamin D3**

生物活性:	
Description	Secalciferol is a metabolite of Vitamin D, a possibly anti-inflammatory steroid which is involved in bone ossification. IC50 value: Target: In addition, it is known that Secalciferol mediates calcium and phosphorus homeostasis. Also Secalciferol inhibits calcium channels in osteosarcoma cells via suppressing the effects of 1 α , 25-dihydroxyvitamin D3 and testosterone. Alternate studies indicate that Secalciferol can decrease the abundance of p53 and Pi-induced cytochrome c translocation. Furthermore, Secalciferol can increase cell proliferation in resting zone (RC) chondrocytes and inhibits matrix enzymes by possibly inhibiting the degradation of the matrix.
References	[1]. Yamamoto T, Ozono K, Shima M, et al. 24R,25-dihydroxyvitamin D3 increases cyclic GMP contents, leading to an enhancement of osteocalcin synthesis by 1,25-dihydroxyvitamin D3 in cultured human osteoblastic cells. Exp Cell Res. 1998 Oct 10;244(1):71-6. [2]. Sakaki T, Sawada N, Takeyama K, et al. Enzymatic properties of mouse 25-hydroxyvitamin D3 1 α-hydroxylase expressed in Escherichia coli. Eur J Biochem. 1999 Feb;259(3):731-8. [3]. Norman AW, Okamura WH, Bishop JE, Henry HL. Update on biological actions of 1α,25(OH)$_2$-vitamin D3 (rapid effects) and 24R,25(OH)$_2$-vitamin D3. Mol Cell Endocrinol. 2002 Nov 29;197(1-2):1-13 [4]. Hurst-Kennedy J, Zhong M, Gupta V et al. 24R,25-Dihydroxyvitamin D3, lysophosphatidic acid, and p53: a signaling axis in the inhibition of phosphate-induced chondrocyte apoptosis. J Steroid Biochem Mol Biol. 2010 Oct;122(4):264-71. [5]. Wehmeier KR, Alamir AR, Sultan S, et al. 24, 25-dihydroxycholecalciferol but not 25-hydroxycholecalciferol suppresses apolipoprotein A-I gene expression. Life Sci. 2011 Jan 3;88(1-2):110-6. [6]. Rubin LP, Yeung B, Vouros P et al. Evidence for human placental synthesis of 24,25-dihydroxyvitamin D3 and 23,25-dihydroxyvitamin D3. Pediatr Res. 1993 Jul;34(1):98-104.