
Product Data Sheet

Product Name: Calcitriol Derivatives

Cat. No.: GC35590

Chemical Properties

Cas. No. 2070009-24-2

SMILES O[C@H](C/C=C)C[C@@H](CC1=C\C=C2[C@@](CC[C@@H]3[C@@H](CCCC(C)(O)C)C)([H])[C@]3(C)CCC\2)OCCC#N

Formula	C ₃₀ H ₄₇ NO ₃	M.Wt	469.7
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Solubility	Soluble in DMSO	Storage	Store at -20°C
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General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

Calcitriol Derivatives is a vitamin D3 analog. v

[1]. Barrera D, Noyola-Martínez N, Avila E, Halhali A, Larrea F, Díaz L. Calcitriol inhibits interleukin-10 expression in cultured human trophoblasts under normal and inflammatory conditions. *Cytokine*. 2012 Mar;57(3):316-21. [2]. Lydia A, Asanuma K, Nonaka K, Takagi M, Jeong KH, Kodama F, Asao R, Asanuma E, Prodjosudjadi W, Tomino Y. Effects of 22-oxa-calcitriol on podocyte injury in adriamycin-induced nephrosis. *Am J Nephrol*. 2012;35(1):58-68. [3]. Michalak K, Wicha J. Total synthesis of a CD-ring: side-chain building block for preparing 17-epi-calcitriol derivatives from the Hajos-Parrish dione. *J Org Chem*. 2011 Aug 19;76(16):6906-11. [4]. Moorthi RN, Kandula P, Moe SM. Optimal vitamin D, calcitriol, and vitamin D analog replacement in chronic kidney disease: to D or not to D: that is the question. *Curr Opin Nephrol Hypertens*. 2011 Jul;20(4):354-9. [5]. Yu WD, Ma Y, Flynn G, Muindi JR, Kong RX, Trump DL, Johnson CS. Calcitriol enhances gemcitabine anti-tumor activity in vitro and in vivo by promoting apoptosis in a human pancreatic carcinoma model system. *Cell Cycle*. 2010 Aug 1;9(15):3022-9.

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

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