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## Product Data Sheet

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Product Name: Doxercalciferol-D3

Cat. No.: GC35896

### Chemical Properties

Cas. No.

SMILES O[C@@H](C[C@H](O)C1)C(/C1=C([2H])\C=C2[C@@]3([H])[C@@](CCC\2)(C)[C@@H]([C@H](C)/C=C/[C@H](C)C(C)C)CC3)=C([2H])\[2H]

Formula  $C_{28}H_{41}D_3O_2$  M.Wt 415.67

Solubility Soluble in DMSO Storage Store at -20°C, unstable in solution, ready to use.

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

Doxercalciferol-D3 is the deuterated form of Doxercalciferol, which is a Vitamin D2 analog that acts as a vitamin D receptor activator (VDRA).

[1]. Brown AJ, Ritter CS, Knutson JC, Strugnell SA. The vitamin D prodrugs 1alpha(OH)D2, 1alpha(OH)D3 and BCI-210 suppress PTH secretion by bovine parathyroid cells. Nephrol Dial Transplant. 2006 Mar;21(3):644-50. [2]. Noonan W, Koch K, Nakane M, Ma J, Dixon D, Bolin A, Reinhart G. Differential effects of vitamin D receptor activators on aortic calcification and pulse wave velocity in uraemic rats. Nephrol Dial Transplant. 2008 Dec;23(12):3824-30. [3]. Sj•d•n G. Effects of vitamin D. A comparison of 1 alpha OHD2 and 1 alpha OHD3 in rats. Acta Orthop Scand Suppl. 1985;217:1-84.

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

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