



# LKT Laboratories, Inc.

## 25-Hydroxyvitamin D2

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### Product Information

**Product ID** H9814

**CAS No.** 21343-40-8

**Chemical Name** (E,3S,6S)-6-[(1R,3aR,4E,7aS)-4-[(2Z)-2-[(5S)-5-hydroxy-2-methylidene-cyclohexylidene]ethylidene]-7a-methyl-2,3,3a,5,6,7-hexahydro-1H-inden-1-yl]-2,3-dimethyl-hept-4-en-2-ol

**Synonym**

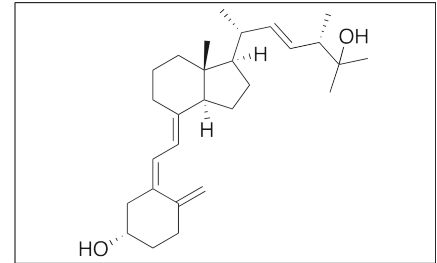
**Formula** C<sub>28</sub>H<sub>44</sub>O<sub>2</sub>

**Formula Wt.** 412.65

**Melting Point** 88.0-95.0° C

**Purity** ≥90%

**Solubility**



**Bulk quantities available upon request**

Product ID	Size
H9814	1 mg
H9814	5 mg

**Store Temp** -20° C

**Ship Temp** Ambient

**Description** 25-hydroxyvitamin D2 (25-OH D2) is a metabolic product of ergocalciferol, or vitamin D2, an exogenously produced vitamin D dietary supplement. 25-OH D2 restores bone mineralization in vitamin D-deficient models and also regulates Ca<sup>2+</sup> homeostasis as a downstream effect of the vitamin D signaling cascade. 25-OH D3 binds to the vitamin D receptor (VDR) but with lower affinity than 25-hydroxyvitamin D3 (25-OH D3). Potential mechanisms remain unknown, but low levels of 25-OH D2 are associated with Alzheimer's disease in some studies.

**References** Shah I, Petroczi A, Tabet N, et al. Low 25OH vitamin D2 levels found in untreated Alzheimer's patients, compared to acetylcholinesterase-inhibitor treated and controls. *Curr Alzheimer Res.* 2012 Nov;9(9):1069-76. PMID: 22876849.

Houghton LA, Vieth R. The case against ergocalciferol (vitamin D2) as a vitamin supplement. *Am J Clin Nutr.* 2006 Oct;84(4):694-7. PMID: 17023693.

**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.