



Product Information

Product ID A4521

CAS No. 41294-56-8

Chemical Name

Synonym 1-Hydroxyvitamin D3, 1-Hydroxycholecalciferol
(1 α ,3 β ,5 β ,7 ϵ)-9,10-Secocholesta-5,7,10(19)-triene-1,3-diol

Formula C₂₇H₄₄O₂

Formula Wt. 400.64

Melting Point 136 °C

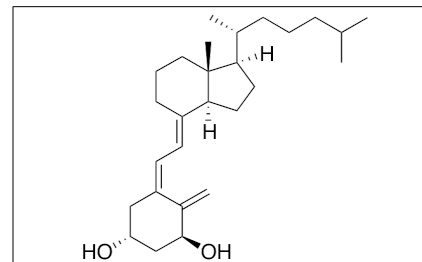
Purity ≥98%

Solubility Soluble in THF and
methanol.

Store Temp -20 °C

Ship Temp Ambient

Description Alfacalcidol is a vitamin D analog that requires 25-hydroxylation to become the active hormonal form of vitamin D3. Alfacalcidol is clinically used to treat osteoporosis, hyperparathyroidism, and renal bone disease. As an anti-osteoporotic, alfacalcidol increases bone strength and formation and displays anti-catabolic and anabolic effects on bone in vivo.



Bulk quantities available upon request

Product ID	Size
A4521	1 mg
A4521	5 mg
A4521	25 mg

References Mazzaferro S, Goldsmith D, Larsson TE, et al. Vitamin D Metabolites and/or Analogs: Which D for Which Patient? *Curr Vasc Pharmacol.* 2014 Mar;12(2):339-49. PMID: 23713876.

Hara S, Kishimoto KN, Okuno H, et al. Effects of alfacalcidol on back extensor strength gained through back extensor exercise in postmenopausal women with osteoporosis. *Am J Phys Med Rehabil.* 2013 Feb;92(2):101-10. PMID: 23044701.

Chen H, Tian X, Liu X, et al. Alfacalcidol-stimulated focal bone formation on the cancellous surface and increased bone formation on the periosteal surface of the lumbar vertebrae of adult female rats. *Calcif Tissue Int.* 2008 Feb;82(2):127-36. PMID: 18175034.

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