

Product Data Sheet

Product Name: (1S)-Calcitriol

Cat. No.: GC62730

Chemical Properties

Cas. No. 61476-45-7

Formula $C_{27}H_{44}O_3$ M.Wt 416.64

Solubility DMSO : 100 mg/mL (240.02 mM; Storage
Need ultrasonic)

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.

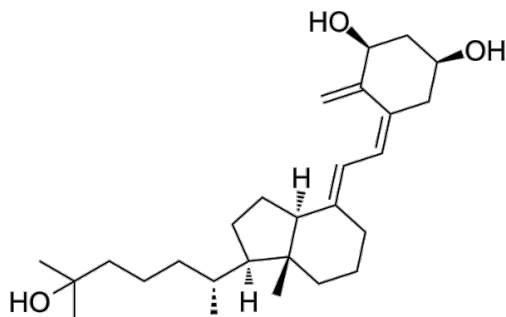
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

(1S)-Calcitriol (1 α ,25-Dihydroxy-3-epi-vitamin-D3) is a natural metabolite of 1 α ,25-dihydroxyvitamin D3 (1 α ,25(OH)2D3). (1S)-Calcitriol exhibits potent vitamin D receptor (VDR)-mediated actions such as inhibition of keratinocyte growth or suppression of parathyroid hormone secretion[1].

3-epi-Calcitroic acid is an end product of (1S)-Calcitriol (1 α ,25-Dihydroxy-3-epi-vitamin-D3; 3-epi-1 α ,25(OH)2D3) metabolism by rat CYP24A1[1].

[1]. Steve Y Rhieu, et al. Metabolic stability of 3-epi-1 α ,25-dihydroxyvitamin D3 over 1 α 25-dihydroxyvitamin D3: metabolism and molecular docking studies using rat CYP24A1. J Cell Biochem. 2013 Oct;114(10):2293-305.

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