

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic in



PRODUCT INFORMATION



25-hydroxy Vitamin D₂

Item No. 9000683

CAS Registry No.: 19356-17-3

Formal Name: 4-[(2Z)-2-[(5S)-5-hydroxy-2-

> methylenecyclohexylidene]ethylidene] octahydro- α , α , ϵ ,7a-tetramethyl-

(εR,1R,3aS,4E,7aR)-1H-indene-1-pentanol

Synonyms: 25-hydroxy Cholecalciferol, RO 8-8892,

U 32070E

MF: $C_{27}H_{44}O_2$ FW: 400.6 **Purity:**

UV/Vis.: λ_{max} : 213, 265 nm A crystalline solid Supplied as:

-20°C Storage: Stability: ≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

25-hydroxy Vitamin D₃ is supplied as a crystalline solid. A stock solution may be made by dissolving the 25-hydroxy vitamin D₃ in the solvent of choice, which should be purged with an inert gas. 25-hydroxy Vitamin D₃ is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of 25-hydroxy vitamin D_3 in ethanol and DMF is approximately 20 mg/ml and 10 mg/ml in DMSO. 25-hydroxy Vitamin D_3 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, 25-hydroxy vitamin D_3 should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. 25-hydroxy Vitamin D₃ has a solubility of approximately 0.3 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Deficiency of vitamin D leads to abnormal calcium and phosphorus metabolism, contributing to deficiencies in bone formation, neuromuscular function, and inflammatory response. 25-hydroxy Vitamin D₃ is an intermediate in the pathway leading to the production of 1,25-dihydroxy vitamin D₃, the most receptoractive form of vitamin D. 25-hydroxy Vitamin D_3 , produced in the liver from vitamin D_3 , is metabolized in the kidney to 1,25-dihydroxy vitamin D_3 . Plasma or serum levels of 25-hydroxy vitamin D_3 are commonly used as an indicator of an individual's vitamin D status.1

Reference

1. Peterlik, M., Boonen, S., Cross, H.S., et al. Vitamin D and calcium insufficiency-related chronic diseases: An emerging world-wide public health problem. Int. J. Environ. Res. Public Health 6, 2585-607 (2009).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.**CAYMANCHEM**.COM