

calcidiol 1-monooxygenase

Cat. No. EXWM-0943

Lot. No. (See product label)

Introduction

Description

A P-450 (heme-thiolate) enzyme found in mammals.

Synonyms

25-hydroxycholecalciferol 1-hydroxylase; 25-hydroxycholecalciferol 1-monooxygenase; 1-hydroxylase-25-hydroxyvitamin D3; 25-hydroxy D3-1 α -hydroxylase; 25-hydroxycholecalciferol 1 α -hydroxylase; 25-hydroxyvitamin D3 1 α -hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.15.18

CAS No.

9081-36-1

Reaction

(1) calcidiol + 2 reduced adrenodoxin + 2 H⁺ + O₂ = calcitriol + 2 oxidized adrenodoxin + H₂O; (2) secalciferol + 2 reduced adrenodoxin + 2 H⁺ + O₂ = calcitriol + 2 oxidized adrenodoxin + H₂O

Notes

This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.

Storage and Shipping Information

Storage

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.