

## vitamin D3 24-hydroxylase

Cat. No. EXWM-0941

Lot. No. (See product label)

## Introduction

**Description** This mitochondrial cytochrome P-450 enzyme requires adrenodoxin. The enzyme

can perform up to 6 rounds of hydroxylation of the substrate calcitriol leading to calcitroic acid. The human enzyme also shows 23-hydroxylating activity leading to 1,25 dihydroxyvitamin D3-26,23-lactone as end product while the mouse and rat enzymes do not. The initial source of the electrons is NADPH, which transfers the electrons to the adrenodoxin via EC 1.18.1.6, adrenodoxin-NADP+ reductase.

Synonyms CYP24A1

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.15.16

**Reaction** (1) calcitriol + 2 reduced adrenodoxin + 2 H+ + O(2) = calcitetrol + 2 oxidized

adrenodoxin + H2O; (2) calcidiol + 2 reduced adrenodoxin + 2 H+ + O2 =

1/1

secalciferol + 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

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

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