

## 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+ + O2 = calcitetrol + 2 oxidized adrenodoxin + H2O; (2)

calcidiol + 2 reduced adrenodoxin + 2 H+ + O2 = 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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