

## vitamin D 25-hydroxylase

Cat. No. EXWM-0921

Lot. No. (See product label)

## Introduction

**Description** A microsomal enzyme isolated from human and mouse liver that bioactivates vitamin D3. While multiple

isoforms (CYP27A1, CYP2J2/3, CYP3A4, CYP2D25 and CYP2C11) are able to catalyse the reaction in vitro, only CYP2R1 is thought to catalyse the reaction in humans in vivo. The direct electron donor to the

enzyme is EC 1.6.2.4, NADPH-hemoprotein reductase.

Synonyms vitamin D2 25-hydroxylase; vitamin D3 25-hydroxylase; CYP2R1

## **Product Information**

Form Liquid or lyophilized powder

**EC Number** EC 1.14.14.24

**Reaction** calciol + O2 + [reduced NADPH-hemoprotein reductase] = calcidiol + [oxidized NADPH-hemoprotein

reductase] + 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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