

## phylloquinone $\omega$ -hydroxylase

Cat. No. EXWM-0794

Lot. No. (See product label)

### Introduction

#### Description

A heme-thiolate protein (cytochrome P-450). Isolated from human tissue. The enzyme will also act on menaquinone-4. Prolonged action of CYP4F2, but not CYP4F11, on the  $\omega$  hydroxyl group oxidizes it to the corresponding carboxylic acid. CYP4F2 also oxidizes leukotriene B<sub>4</sub>; see EC 1.14.13.30, leukotriene-B<sub>4</sub> 20-monooxygenase.

#### Synonyms

vitamin K1  $\omega$ -hydroxylase; CYP4F2; CYP4F11

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.194

#### Reaction

phylloquinone + NADPH + H<sup>+</sup> + O<sub>2</sub> =  $\omega$ -hydroxyphylloquinone + NADP<sup>+</sup> + H<sub>2</sub>O

#### 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.