

## L-ornithine N5-monooxygenase (NADPH)

Cat. No. EXWM-0795

Lot. No. (See product label)

### Introduction

#### Description

A flavoprotein (FAD). The enzyme is involved in biosynthesis of N5-hydroxy-L-ornithine, N5-formyl-N5-hydroxy-L-ornithine or N5-acetyl-N5-hydroxy-L-ornithine. These nonproteinogenic amino acids are building blocks of siderophores produced by some bacteria (e.g. *Streptomyces coelicolor*, *Saccharopolyspora erythraea* and *Pseudomonas aeruginosa*). The enzyme is specific for NADPH. cf. EC 1.14.13.196, L-ornithine N5-monooxygenase [NAD(P)H].

#### Synonyms

CchB; ornithine hydroxylase; EtcB; PvdA; Af-OMO; dffA (gene name)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.13.195

#### Reaction

$L\text{-ornithine} + \text{NADPH} + \text{H}^+ + \text{O}_2 = \text{N5-hydroxy-L-ornithine} + \text{NADP}^+ + \text{H}_2\text{O}$

#### 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.