

## L-ornithine N5-monooxygenase [NAD(P)H]

Cat. No. EXWM-0796

Lot. No. (See product label)

## Introduction

**Description** A flavoprotein (FAD). The enzyme from the pathogenic fungus Aspergillus

fumigatus catalyses a step in the biosynthesis of the siderophores

triacetylfusarinine and desferriferricrocin, while the enzyme from the bacterium Kutzneria sp. 744 is involved in the biosynthesis of piperazate, a building block of the kutzneride family of antifungal antibiotics. Activity of the fungal enzyme is higher with NADPH, due to the fact that following the reduction of the flavin, NADP+ (but not NAD+) stabilizes the C4a-hydroperoxyflavin intermediate that oxidizes the

substrate. cf. EC 1.14.13.195, L-ornithine N5-monooxygenase (NADPH).

**Synonyms** SidA (ambiguous)

## **Product Information**

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.13.196

**Reaction** L-ornithine + NAD(P)H + H+ + O2 = N5-hydroxy-L-ornithine + NAD(P)+ + 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.

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com

1/1