Creative Enzymes®

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

Storage	Store it at +4 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.