Creative Enzymes®

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-ornithine + NADPH + H+ + O2 = N5-hydroxy-L-ornithine + NADP+ + 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 ℃.