Creative Enzymes®

isobutylamine N-monooxygenase

Cat. No. EXWM-0928

Lot. No. (See product label)

Introduction

Description	The enzyme, characterized from the bacterium Streptomyces viridifaciens, is part of a two component system that also includes a flavin reductase, which provides reduced flavin mononucleotide for this enzyme. The enzyme, which is involved in the biosynthesis of the azoxy antibiotic valanimycin, has a similar activity with either FMNH2 or FADH2. It exhibits broad specificity, and also accepts n-propylamine, n-butylamine, sec-butylamine and benzylamine.
Synonyms	vlmH (gene name)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 1.14.14.30
Reaction	(1) 2-methylpropan-1-amine + FADH2 + O2 = N-(2-methylpropanoyl)hydroxylamine + FAD + H2O; (2) 2-methylpropan-1-amine + FMNH2 + O2 = N-(2-methylpropanoyl)hydroxylamine + FMN + 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 ℃.