

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 °C for short term. For long term storage, store it at -20 °C~-80 °C.