

1,3,7-trimethyluric acid 5-monooxygenase

Cat. No. EXWM-0814

Lot. No. (See product label)

Introduction

Description

The enzyme, characterized from the bacterium *Pseudomonas* sp. CBB1, is part of the bacterial C-8 oxidation-based caffeine degradation pathway. The product decomposes spontaneously to a racemic mixture of 3,6,8-trimethylallantoin. The enzyme shows no activity with urate. cf. EC 1.14.13.113, FAD-dependent urate hydroxylase.

Synonyms

tmuM (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.13.212

Reaction

$1,3,7\text{-trimethylurate} + \text{NADH} + \text{H}^+ + \text{O}_2 = 1,3,7\text{-trimethyl-5-hydroxyisourate} + \text{NAD}^+ + \text{H}_2\text{O}$

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.