Creative Enzymes®

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 acitivity 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-trimethylurate + NADH + H+ + O2 = 1,3,7-trimethyl-5-hydroxyisourate + NAD+ + 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 ℃.