

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