

## 1,3,7-trimethyluric acid 5-monoxygenase

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<sup>+</sup> + O<sub>2</sub> = 1,3,7-trimethyl-5-hydroxyisourate + NAD<sup>+</sup> + H<sub>2</sub>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.