

## nitronate monooxygenase

Cat. No. EXWM-0608

Lot. No. (See product label)

### Introduction

#### Description

Previously classified as 2-nitropropane dioxygenase (EC 1.13.11.32), but it is now recognized that this was the result of the slow ionization of nitroalkanes to their nitronate (anionic) forms. The enzymes from the fungus *Neurospora crassa* and the yeast *Williopsis saturnus* var. *mrakii* (formerly classified as *Hansenula mrakii*) contain non-covalently bound FMN as the cofactor. Neither hydrogen peroxide nor superoxide were detected during enzyme turnover. Active towards linear alkyl nitronates of lengths between 2 and 6 carbon atoms and, with lower activity, towards propyl-2-nitronate. The enzyme from *N. crassa* can also utilize neutral nitroalkanes, but with lower activity.

#### Synonyms

NMO; 2-nitropropane dioxygenase (incorrect)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.13.12.16

#### Reaction

ethylnitronate + O<sub>2</sub> = acetaldehyde + nitrite + other products

#### 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.