

## linoleate 11-lipoxygenase

Cat. No. EXWM-0563

Lot. No. (See product label)

### Introduction

#### Description

The product (9Z,12Z)-(11S)-11-hydroperoxyoctadeca-9,12-dienoate, is converted, more slowly, into (9Z,11E)-(13R)-13-hydroperoxyoctadeca-9,11-dienoate. The enzyme from the fungus *Gaeumannomyces graminis* requires Mn<sup>2+</sup>. It also acts on α-linolenate, whereas γ-linolenate is a poor substrate. Oleate and arachidonate are not substrates.

#### Synonyms

linoleate dioxygenase, manganese lipoxygenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.13.11.45

#### Reaction

linoleate + O<sub>2</sub> = (9Z,12Z)-(11S)-11-hydroperoxyoctadeca-9,12-dienoate

#### 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.