

## phosphatidylcholine 12-monooxygenase

Cat. No. EXWM-0966

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the plant *Ricinus communis* (castor bean), is involved in production of the 12-hydroxylated fatty acid ricinoleate. The enzyme, which shares sequence similarity with fatty-acyl desaturases, requires a cytochrome b5 as the electron donor.

#### Synonyms

ricinoleic acid synthase; oleate  $\Delta$ 12-hydroxylase; oleate  $\Delta$ 12-monooxygenase

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.18.4

#### CAS No.

77950-95-9

#### Reaction

a 1-acyl-2-oleoyl-sn-glycero-3-phosphocholine + 2 ferrocytochrome b5 + O<sub>2</sub> + 2 H<sup>+</sup> = a 1-acyl-2-[(12R)-12-hydroxyoleoyl]-sn-glycero-3-phosphocholine + 2 ferricytochrome b5 + 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.