

## icosanoyl-CoA 5-desaturase

Cat. No. EXWM-0972

Lot. No. (See product label)

### Introduction

#### Description

The enzyme, characterized from the plant *Limnanthes douglasii* (meadowfoam), is involved in the biosynthesis of (5Z)-icos-5-enoate, an unusual monounsaturated fatty acid that makes up to 60% of the total fatty acids in *Limnanthes* sp. seed oil. The enzyme only acts on saturated fatty acids.

#### Synonyms

acyl-CoA  $\Delta$ 5-desaturase (ambiguous)

### Product Information

#### Form

Liquid or lyophilized powder

#### EC Number

EC 1.14.19.10

#### Reaction

icosanoyl-CoA + 2 ferrocyclochrome b5 + O<sub>2</sub> + 2 H<sup>+</sup> = (Z)-icos-5-enoyl-CoA + 2 ferricyclochrome b5 + 2 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.