

## 4-hydroxysphinganine ceramide fatty acyl 2-hydroxylase

Cat. No. EXWM-0968

Lot. No. (See product label)

## Introduction

**Description** The enzyme, characterized from yeast and mammals, catalyses the hydroxylation

of carbon 2 of long- or very-long-chain fatty acids attached to (4R)-4-

hydroxysphinganine during de novo ceramide synthesis. The enzymes from yeast and from mammals contain an N-terminal cytochrome b5 domain that acts as the direct electron donor to the desaturase active site. The newly introduced 2-hydroxyl

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group has R-configuration. cf. EC 1.14.18.7, dihydroceramide fatty acyl 2-

hydroxylase.

**Synonyms** FA2H (gene name); SCS7 (gene name)

**Product Information** 

**Form** Liquid or lyophilized powder

**EC Number** EC 1.14.18.6

**Reaction** a phytoceramide + 2 ferrocytochrome b5 + O2 + 2 H+ = a (2'R)-2'-

hydroxyphytoceramide + 2 ferricytochrome b5 + H2O

**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

Store it at +4 °C for short term. For long term storage, store it at -20 °C~-80 °C.

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