

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 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 + 02 + 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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