

dihydroceramide fatty acyl 2-hydroxylase

Cat. No. EXWM-0969

Lot. No. (See product label)

Introduction

Description

The enzyme, characterized from plants, catalyses the hydroxylation of carbon 2 of long- or very-long-chain fatty acids attached to sphinganine during de novo ceramide synthesis. The enzyme requires an external cytochrome b5 as the electron donor. The newly introduced 2-hydroxyl group has R-configuration. cf. EC 1.14.18.6, 4-hydroxysphinganine ceramide fatty acyl 2-hydroxylase.

Synonyms

FAH1 (gene name); FAH2 (gene name); plant sphingolipid fatty acid 2-hydroxylase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.18.7

Reaction

a dihydroceramide + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = a (2'R)-2'-hydroxydihydroceramide + 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

Storage

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