

sphingolipid C4-monooxygenase

Cat. No. EXWM-0967

Lot. No. (See product label)

Introduction

Description

The enzyme, which belongs to the family of endoplasmic reticular cytochrome b5-dependent enzymes, is involved in the biosynthesis of sphingolipids in eukaryotes. Some enzymes are bifunctional and also catalyze EC 1.14.19.17, sphingolipid 4-desaturase.

Synonyms

sphinganine C4-monooxygenase; sphingolipid C4-hydroxylase; SUR2 (gene name); SBH1 (gene name); SBH2 (gene name); DEGS2 (gene name)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 1.14.18.5

Reaction

a dihydroceramide + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = a (4R)-4-hydroxysphinganine ceramide + 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.