

phosphatidylcholine 12-monooxygenase

Cat. No. EXWM-0966

Lot. No. (See product label)

Introduction

Description The enzyme, characterized from the plant *Ricinus communis* (castor bean), is involved in production of the 12-hydroxylated fatty acid ricinoleate. The enzyme, which shares sequence similarity with fatty-acyl desaturases, requires a cytochrome b5 as the electron donor.

Synonyms ricinoleic acid synthase; oleate Δ 12-hydroxylase; oleate Δ 12-monooxygenase

Product Information

Form Liquid or lyophilized powder

EC Number EC 1.14.18.4

CAS No. 77950-95-9

Reaction a 1-acyl-2-oleoyl-sn-glycero-3-phosphocholine + 2 ferrocytochrome b5 + O₂ + 2 H⁺ = a 1-acyl-2-[(12R)-12-hydroxyoleoyl]-sn-glycero-3-phosphocholine + 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.