Creative Enzymes®

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 Δ12-hydroxylase; oleate Δ12-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 ℃ for short term. For long term storage, store it at -20 ℃~-80 ℃.