

phospholipid:diacylglycerol acyltransferase

Cat. No. EXWM-2097

Lot. No. (See product label)

Introduction

Description

This enzyme differs from EC 2.3.1.20, diacylglycerol O-acyltransferase, by synthesising triacylglycerol using an acyl-CoA-independent mechanism. The specificity of the enzyme for the acyl group in the phospholipid varies with species, e.g., the enzyme from castor bean (*Ricinus communis*) preferentially incorporates vernoloyl (12,13-epoxyoctadec-9-enoyl) groups into triacylglycerol, whereas that from the hawk's beard (*Crepis palaestina*) incorporates both ricinoleoyl (12-hydroxyoctadec-9-enoyl) and vernoloyl groups. The enzyme from the yeast *Saccharomyces cerevisiae* specifically transfers acyl groups from the sn-2 position of the phospholipid to diacylglycerol, thus forming an sn-1-lysophospholipid.

Synonyms

PDAT

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.3.1.158

CAS No.

288587-47-3

Reaction

phospholipid + 1,2-diacyl-sn-glycerol = lysophospholipid + triacylglycerol

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.