

diacylglycerol kinase (CTP)

Cat. No. EXWM-3005

Lot. No. (See product label)

Introduction

Description

Requires Ca²⁺ or Mg²⁺ for activity. Involved in synthesis of membrane phospholipids and the neutral lipid triacylglycerol. Unlike the diacylglycerol kinases from bacteria, plants, and animals [cf. EC 2.7.1.107, diacylglycerol kinase (ATP)], the enzyme from *Saccharomyces cerevisiae* utilizes CTP. The enzyme can also use dCTP, but not ATP, GTP or UTP.

Synonyms

DAG kinase; CTP-dependent diacylglycerol kinase; diglyceride kinase (ambiguous); DGK1 (gene name); diacylglycerol kinase (CTP dependent)

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.1.174

Reaction

CTP + 1,2-diacyl-sn-glycerol = CDP + 1,2-diacyl-sn-glycerol 3-phosphate

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.