Creative Enzymes®

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