

1L-myo-inositol 1-phosphate cytidyltransferase

Cat. No. EXWM-3286

Lot. No. (See product label)

Introduction

Description

In many organisms this activity is catalysed by a bifunctional enzyme. The cytidyltransferase domain of the bifunctional EC 2.7.7.74/EC 2.7.8.34 (CTP:inositol-1-phosphate cytidyltransferase/CDP-inositol:inositol-1-phosphate transferase) is absolutely specific for CTP and 1L-myo-inositol 1-phosphate. The enzyme is involved in biosynthesis of bis(1L-myo-inositol) 1,3'-phosphate, a widespread organic solute in microorganisms adapted to hot environments.

Synonyms

CTP:inositol-1-phosphate cytidyltransferase (bifunctional CTP:inositol-1-phosphate cytidyltransferase/CDP-inositol:inositol-1-phosphate transferase (IPCT/DIPPS)); IPCT (bifunctional CTP:inositol-1-phosphate cytidyltransferase/CDP-inositol:inositol-1-phosphate transferase (IPCT/DIPPS)); L-myo-inositol-1-phosphate cytidyltransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.7.74

Reaction

CTP + 1L-myo-inositol 1-phosphate = diphosphate + CDP-1L-myo-inositol

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.