Creative Enzymes®

CDP-L-myo-inositol myo-inositolphosphotransferase

Cat. No. EXWM-3333

Lot. No. (See product label)

Introduction

Description	In many organisms this activity is catalysed by a bifunctional enzyme. The di-myo-inositol-1,3'-phosphate-1'-phosphate synthase domain of the bifunctional EC 2.7.7.74/EC 2.7.8.34 (CTP:inositol-1-phosphate cytidylyltransferase/CDP-inositol:inositol-1-phosphate transferase) uses only 1L-myo-inositol 1-phosphate as an alcohol acceptor, but CDP-glycerol, as well as CDP-1L-myo-inositol and CDP-D-myo-inositol, are recognized as alcohol donors. 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	CDP-inositol:inositol-1-phosphate transferase (bifunctional CTP:inositol-1-phosphate cytidylyltransferase/CDP-inositol:inositol-1-phosphate transferase (IPCT/DIPPS)); DIPPS (bifunctional CTP:inositol-1-phosphate cytidylyltransferase/CDP-inositol:inositol-1-phosphate transferase (IPCT/DIPPS))

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.8.34
Reaction	CDP-1L-myo-inositol + 1L-myo-inositol 1-phosphate = CMP + bis(1L-myo-inositol) 3,1'-phosphate 1-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 ℃.