Creative Enzymes®

CDP-2,3-bis-(O-geranylgeranyl)-sn-glycerol synthase

Cat. No. EXWM-3278

Lot. No. (See product label)

Introduction

Description	This enzyme catalyses one of the steps in the biosynthesis of polar lipids in archaea, which are characterized by having an sn-glycerol 1-phosphate backbone rather than an sn-glycerol 3-phosphate backbone as is found in bacteria and eukaryotes. The enzyme requires Mg2+ and K+ for maximal activity.
Synonyms	carS (gene name); CDP-2,3-di-O-geranylgeranyl-sn-glycerol synthase; CTP:2,3-GG-GP ether cytidylyltransferase; CTP:2,3-di-O-geranylgeranyl-sn-glycero-1-phosphate cytidyltransferase; CDP-2,3-bis-O-(geranylgeranyl)-sn-glycerol synthase; CTP:2,3-bis-O-(geranylgeranyl)-sn-glycero-1-phosphate cytidylyltransferase; CDP-unsaturated archaeol synthase; CDP-archaeol synthase (incorrect)

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.7.67
CAS No.	329791-09-5
Reaction	CTP + 2,3-bis-(O-geranylgeranyl)-sn-glycerol 1-phosphate = diphosphate + CDP-2,3-bis-(O-geranylgeranyl)-sn-glycerol
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 ℃.