Creative Enzymes®

UDP-N-acetylglucosamine 1-carboxyvinyltransferase

Cat. No. EXWM-2807

Lot. No. (See product label)

Introduction

Description	This enzyme belongs to the family of transferases, specifically those transferring aryl or alkyl groups other than methyl groups. The systematic name of this enzyme class is phosphoenolpyruvate:UDP-N-acetyl-D-glucosamine 1-carboxyvinyltransferase. This enzyme participates in amino sugars metabolism and glycan biosynthesis.
Synonyms	MurA transferase; UDP-N-acetylglucosamine 1-carboxyvinyl-transferase; UDP-N-acetylglucosamine enoylpyruvyltransferase; enoylpyruvate transferase; phosphoenolpyruvate-UDP-acetylglucosamine-3-enolpyruvyltransferase; phosphoenolpyruvate:UDP-2-acetamido-2-deoxy-D-glucose 2-enoyl-1-carboxyethyltransferase; phosphoenolpyruvate:uridine diphosphate N-acetylglucosamine enolpyruvyltransferase; phosphoenolpyruvate:uridine-5'-diphospho-N-acetyl-2-amino-2-deoxyglucose 3-enolpyruvyltransferase; phosphopyruvate-uridine diphosphoacetylglucosamine pyruvatetransferase; pyruvate-UDP-acetylglucosamine transferase; pyruvate-uridine diphospho-N-acetylglucosamine transferase; pyruvate-uridine diphospho-N-acetyl-glucosamine transferase; pyruvic-uridine diphospho-N-acetylglucosaminyltransferase; phosphoenolpyruvate:UDP-N-acetyl-D-glucosamine 1-carboxyvinyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.5.1.7
CAS No.	9023-27-2
Reaction	phosphoenolpyruvate + UDP-N-acetyl-α-D-glucosamine = phosphate + UDP-N-acetyl-3-O-(1-carboxyvinyl)-α-D-glucosamine
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 ℃.