Creative Enzymes®

UDP-N-acetylglucosamine-undecaprenyl-phosphate N-acetylglucosaminephosphotransferase

Cat. No. EXWM-3332

Lot. No. (See product label)

Introduction

Description

This enzyme catalyses the synthesis of N-acetyl-α-D-glucosaminyl-diphospho-ditrans,octacis-undecaprenol, an essential lipid intermediate for the biosynthesis of various bacterial cell envelope components. The enzyme also initiates the biosynthesis of enterobacterial common antigen and O-antigen lipopolysaccharide in certain Escherichia coli strains, including K-12 and of teichoic acid in certain Gram-positive bacteria.

Synonyms

UDP-N-acetylglucosamine:undecaprenyl-phosphate GlcNAc-1-phosphate transferase; WecA; WecA transferase; UDP-GlcNAc:undecaprenyl phosphate N-acetylglucosaminyl 1-P transferase; GlcNAc-P-P-Und synthase; GPT (ambiguous); TagO; UDP-GlcNAc:undecaprenyl-phosphate GlcNAc-1-phosphate transferase; UDP-N-acetyl-D-glucosamine:ditrans,octacis-undecaprenyl phosphate N-acetylglucosaminephosphotransferase

Product Information

Form

Liquid or lyophilized powder

EC Number

EC 2.7.8.33

Reaction

UDP-N-acetyl-α-D-glucosamine + ditrans,octacis-undecaprenyl phosphate = UMP + N-acetyl-α-D-glucosaminyl-diphospho-ditrans,octacis-undecaprenol

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 ℃.