Creative Enzymes®

UDP-N-acetylglucosamine diphosphorylase

Cat. No. EXWM-3236

Lot. No. (See product label)

Introduction

Description	Part of the pathway for acetamido sugar biosynthesis in bacteria and archaea. The enzyme from several bacteria (e.g., Escherichia coli, Bacillus subtilis and Hemophilus influenzae) has been shown to be bifunctional and also to possess the activity of EC 2.3.1.157, glucosamine-1-phosphate N-acetyltransferase. The enzyme from plants and animals is also active toward N-acetyl-α-D-galactosamine 1-phosphate (cf. EC 2.7.7.83, UDP-N-acetylgalactosamine diphosphorylase), while the bacterial enzyme shows low activity toward that substrate.
Synonyms	UDP-N-acetylglucosamine pyrophosphorylase; uridine diphosphoacetylglucosamine pyrophosphorylase; UTP:2-acetamido-2-deoxy-α-D-glucose-1-phosphate uridylyltransferase; UDP-GlcNAc pyrophosphorylase; GlmU uridylyltransferase; Acetylglucosamine 1-phosphate uridylyltransferase; UDP-acetylglucosamine pyrophosphorylase; uridine diphosphate-N-acetylglucosamine pyrophosphorylase; uridine diphosphoacetylglucosamine phosphorylase; acetylglucosamine 1-phosphate uridylyltransferase

Product Information

Form	Liquid or lyophilized powder
EC Number	EC 2.7.7.23
CAS No.	9023-06-7
Reaction	UTP + N-acetyl-α-D-glucosamine 1-phosphate = diphosphate + UDP-N-acetyl-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 ℃.