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 ℃.