

GlcNAc1-phosphate uridyltransferase from E. coli K-12, Recombinant

Cat. No. NATE-1482

Lot. No. (See product label)

Introduction

Description

N-Acetylglucosamine-1-phosphate uridyltransferase (GlmU), a bifunctional enzyme exclusive to prokaryotes, belongs to the family of sugar nucleotidyltransferases (SNTs). The enzyme binds GlcNAc-1-P and UTP, and catalyzes a uridyltransfer reaction to synthesize UDP-GlcNAc, an important precursor for cell-wall biosynthesis.

Synonyms

N-Acetylglucosamine-1-phosphate uridyltransferase; GlmU; EC 2.3.1.157

Product Information

Species

E. coli K-12

Source

E. coli

EC Number

EC 2.3.1.157

Molecular Weight

25 kDa

Purity

min 95% by SDS-PAGE

Unit Definition

One unit is defined as the amount of enzyme that catalyzes the formation of 1 μ mol of UDP-GlcNAc from GlcNAc-1-P and UTP per minute at 37 °C.