

## 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  $\mu$ mol of UDP-GlcNAc from GlcNAc-1-P and UTP per minute at 37 °C.