

## phosphoglucosamine mutase

Cat. No. EXWM-5521

Lot. No. (See product label)

### Introduction

**Description** The enzyme is involved in the pathway for bacterial cell-wall peptidoglycan and lipopolysaccharide biosyntheses, being an essential step in the pathway for UDP-N-acetylglucosamine biosynthesis. The enzyme from *Escherichia coli* is activated by phosphorylation and can be autophosphorylated in vitro by  $\alpha$ -D-glucosamine 1,6-bisphosphate, which is an intermediate in the reaction,  $\alpha$ -D-glucose 1,6-bisphosphate or ATP. It can also catalyse the interconversion of  $\alpha$ -D-glucose 1-phosphate and glucose 6-phosphate, although at a much lower rate.

### Product Information

**Form** Liquid or lyophilized powder

**EC Number** EC 5.4.2.10

**CAS No.** 9031-92-9

**Reaction**  $\alpha$ -D-glucosamine 1-phosphate = D-glucosamine 6-phosphate

**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 °C for short term. For long term storage, store it at -20 °C~-80 °C.