

## **β-Phosphoglucomutase from E. coli, Recombinant**

Cat. No. NATE-1251

Lot. No. (See product label)

## Introduction

Description Enzymatically converts β-D-glucose-1-phosphate to β-D-glucose-6-phosphate. β-Phosphoglucomutase

enzymatically converts  $\beta$ -D-glucose 1-phosphate to  $\beta$ -D-glucose 6-phosphate. It is involved in starch

and sucrose metabolism. This enzyme belongs to the family of isomerases, specifically the phosphotransferases (phosphomutases), which transfer phosphate groups within a molecule. This

enzyme participates in starch and sucrose metabolism.

β-phosphoglucomutase; β-D-glucose 1,6-phosphomutase; EC 5.4.2.6 **Synonyms** 

## **Product Information**

E. coli **Species** 

Source E. coli

**Appearance** White lyophilizate

EC Number EC 5.4.2.6

CAS No. 68651-99-0

Molecular

ca. 34 kDa

Weight

**Activity** > 20 U/mg lyophilizate

 $\alpha$ -amylase  $< 5.0 \times 10^-3\%$   $\alpha$ -glucosidase  $< 5.0 \times 10^-2\%$  NADPH oxidase  $< 5.0 \times 10^-2\%$ **Contaminants** 

pH Stability 5.0 - 9.5

Optimum pH ca. 7.0

Thermal

below 45°C

stability

40°C **Optimum** 

temperature

Michaelis Constant

Structure

monomer of ca. 25 kDa (SDS-PAGE)

2.3 x 10<sup>-4</sup> M (β-D-glucose-1-phosphate)

Activators Mg2+, Mn2+, Co2+, Ni2+

**Inhibitors** Hg2+, Zn2+, Cu2+, Cd2+

Stabilizers Lactose, EDTA

Unit One unit (U) is defined as the amount of enzyme which converts 1  $\mu$ mol of  $\beta$ -D-glucose-1-phosphate to

**Definition**  $\beta$ -D-glucose-6-phosphate per min at 37°C and pH 7.0.

## Storage and Shipping Information

at -20°C

**Tel:** 1-631-562-8517 1-516-512-3133 Email: info@creative-enzymes.com 1/2 Storage at 20 C

Stability

Stability (liquid form) stable at 37°C for at least one week Stability (powder form) stable at 30°C for at

lest one month