

## Phosphoglycerate mutase 1 from Human, Recombinant

Cat. No. NATE-1647

Lot. No. (See product label)

## Introduction

Description Phosphoglycerate mutase (PGM) is an enzyme that catalyzes step 8 of glycolysis. It catalyzes the

> internal transfer of a phosphate group from C-3 to C-2 which results in the conversion of 3phosphoglycerate (3PG) to 2-phosphoglycerate (2PG) through a 2,3-bisphosphoglycerate intermediate. These enzymes are categorized into the two distinct classes of either cofactor-dependent (dPGM) or cofactor-independent (iPGM). The dPGM enzyme (EC 5.4.2.11) is composed of approximately 250 amino acids and is found in all vertebrates as well as in some invertebrates, fungi, and bacteria. The iPGM (EC 5.4.2.12) class is found in all plants and algae as well as in some invertebrate, fungi, and Gram-positive bacteria. This class of PGM enzyme shares the same superfamily as alkaline

phosphatase.

Pgam-1; PGAM1 **Synonyms** 

## **Product Information**

Species Human

Source E. coli and fused to His-tag at N-terminus

**Form** Liquid

0.5 mg/ml in 50 mM Tris, 100 mM NaCl, pH 8.0 and 20% glycerol **Formulation** 

EC Number EC 5.4.2.1

Molecular

30.9 kDa

Weight

> 90% by SDS-PAGE **Purity** 

**Activity** >300 units/mg

Concentration 1 mg/ml

Unit One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglcerate per minute at pH 7.6 at

37°C. **Definition** 

## Storage and Shipping Information

Storage Store at +4°C for short term (1-2 weeks). For long term storage, aliquot and store at -70°C. Avoid

repeated freeze/thaw cycles.

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