

## Native Baker's yeast (S. cerevisiae) 3-Phosphoglyceric Phosphokinase

Cat. No. NATE-0006

Lot. No. (See product label)

## Introduction

**Description** PhosphoglyceRate kinase (EC 2.7.2.3) (PGK) is an enzyme that catalyzes the

reversible transfer of a phosphate group from 1,3-bisphosphoglyceRate (1,3-BPG) to ADP producing 3-phosphoglyceRate (3-PG) and ATP. Like all kinases it is a transferase. PGK is a major enzyme used in glycolysis, in the first ATP-geneRating step of the glycolytic pathway. In gluconeogenesis, the reaction catalyzed by PGK

proceeds in the opposite direction, geneRating ADP and 1,3-BPG.

**Applications** 3-Phosphoglyceric Phosphokinase generates ATP by catalyzing the transfer of a

phosphate group from 1,3-diphosphoglycerate to ADP. 3-Phosphoglycerate Phosphokinase is used to study glycolysis and gluconeogenesis. It has also been used to study low molecular weight GTP-binding proteins and mechanisms of inhibition of glyceraldehyde-3-phosphate dehydrogenase. The enzyme has been

used in the assay of glyceraldehyde-3-phosphate dehydrogenase.

**Synonyms** PGK; 3-PGK; ATP-3-phospho-D-glyceRate-1-phosphotransferase; ATP:D-3-

phosphoglyceRate 1-phosphotransferase; 3-phosphoglyceRate kinase; 3-phosphoglyceRate phosphokinase; 3-phosphoglyceric acid kinase; 3-

phosphoglyceric acid phosphokinase; 3-phosphoglyceric kinase; glyceRate 3-phosphate kinase; glycerophosphate kinase; phosphoglyceric acid kinase;

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phosphoglyceric kinase; phosphoglycerokinase; EC 2.7.2.3

## **Product Information**

**Source** Baker's yeast (S. cerevisiae)

**Form** ammonium sulfate suspension

**EC Number** EC 2.7.2.3

*CAS No.* 9001-83-6

Activity > 1000 units/mg protein

Unit DefinitionOne unit will convert 1.0 μmole of 1,3-diphosphoglycerate to 3-phosphoglycerate

per min at pH 6.9 at 25°C.

## Storage and Shipping Information

**Storage** 2-8°C