Creative Enzymes®

Phosphoglycerate mutase 2 from Human, Recombinant

Cat. No. NATE-1643

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 3-phosphoglycerate (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.
Synonyms	GSD10; PGAM-M; PGAMM; PGAM2

Product Information

Species	Human
Source	E. coli and fused to His-tag at N-terminus
Form	Liquid
EC Number	EC 5.4.2.11
Molecular Weight	30.9 kDa
Purity	> 95% by SDS-PAGE
Activity	>100 units/mg
Concentration	1 mg/ml
Unit Definition	One unit will convert 1.0 umole of 3-phosphoglycerate to 2-phosphoglcerate per minute at pH 7.6 at 37°C.

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.