

Phosphoglycerate mutase 1 from Human, Recombinant

Cat. No. NATE-1647 Lot. No. (See product label)

Introduction	
Synonyms	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.
Product Information	
Species	Human
Source	E. coli and fused to His-tag at N-terminus
Form	Liquid
Formulation	0.5 mg/ml in 50 mM Tris, 100 mM NaCl, pH 8.0 and 20% glycerol
EC Number	EC 5.4.2.1
Molecular Weight	30.9 kDa
Purity	> 90% by SDS-PAGE
Activity	>300 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 $+4^{\circ}$ C for short term (1-2 weeks). For long term storage, aliquot and store
	at -70°C. Avoid repeated freeze/thaw cycles.