

Recombinant Full Length Human BPGM Protein, GST-tagged

Cat. No. BPGM-3769HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human BPGM full-length ORF (AAH17050, 1 a.a. - 259 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	259 amino acids
Description	<p>2,3-diphosphoglycerate (2,3-DPG) is a small molecule found at high concentrations in red blood cells where it binds to and decreases the oxygen affinity of hemoglobin. This gene encodes a multifunctional enzyme that catalyzes 2,3-DPG synthesis via its synthetase activity, and 2,3-DPG degradation via its phosphatase activity. The enzyme also has phosphoglycerate phosphomutase activity. Deficiency of this enzyme increases the affinity of cells for oxygen. Mutations in this gene result in hemolytic anemia. Multiple alternatively spliced variants, encoding the same protein, have been identified.</p>
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	54.23 kDa
AA Sequence	<p>MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLV FTSVLNRSIHTAWLILEELGQEWVPESSWRLNERHYGALIGLNREQMALNHGEEQ VRLWRRSYNVTPPIEESHPPYQEIYNDRRYKVC DVPLDQLPRSESLKDVLERLLPY</p>

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WNERIAPEVLRGKTLISAHGNSSRALLKHLEGISDEDIINITLPTGVPILLELDENLRAV
GPHQFLGDQEAIQAAIKKVEDQGKVKQAKK

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name BPGM 2,3-bisphosphoglycerate mutase [Homo sapiens]

Official Symbol BPGM

Synonyms BPGM; 2,3-bisphosphoglycerate mutase; bisphosphoglycerate mutase; BPG-dependent PGAM; 2,3-diphosphoglycerate mutase; 2,3-bisphosphoglycerate synthase; erythrocyte 2,3-bisphosphoglycerate mutase; 2,3-bisphosphoglycerate mutase, erythrocyte; DPGM;

Gene ID 669

mRNA Refseq NM_001724

Protein Refseq NP_001715

MIM 613896

UniProt ID P07738

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