

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	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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	54.23 kDa
AA Sequence	MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLV FTSVLNRSIHTAWLILEELGQEWVPVESSWRLNERHYGALIGLNREQMALNHGEEQ VRLWRRSYNVTTPPIEESHPPYYQEIYNDRRYKVCDVPLDQLPRSESLKDVLERLLPY

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WNERIAPEVLRGKTLISAHGNSSRALLKHLEGISDEDIINITLPTGVPILLELDENLRV
GPHQFLGDQEAIAIKKVEDQGKVKQAKK

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