

# Recombinant Full Length Human BPGM Protein, C-Flag-tagged

Cat. No. BPGM-761HFL Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Full Length Human BPGM Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
<b>Species</b>	Human
<b>Source</b>	Mammalian Cells
<b>Description</b>	<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>
<b>Form</b>	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
<b>Molecular Mass</b>	29.8 kDa
<b>AA Sequence</b>	<p>MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLV            FTSVLNRSIHTAWLI LEELGQEWVPVESSWRLNERHYGALIGLNREQMALNHGEEQ            VRLWRRSYNVTPPPPIEESHPPYYQEIYNDR RYKVC DVPLDQLPRSESLKDVLERLLPY            WNERIAPEVLRGKTILISAHGNSSRALLKHLEGISDEDIINI            TLPTGVPILLELDENLRAVGPHQFLGDQEAIAAIAIKKVEDQGKVKQAKKTRTRPLEQK</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LISEEDLAANDILDYKDDDDKV

**Purity** > 80% as determined by SDS-PAGE and Coomassie blue staining.

**Stability** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**Storage** Store at -80 centigrade.

**Concentration** >50 ug/mL as determined by microplate BCA method.

**Preparation** Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

**Protein Families** Druggable Genome

**Protein Pathways** Glycolysis / Gluconeogenesis, Metabolic pathways

**Full Length** Full L.

## GENE INFORMATION

**Gene Name** BPGM bisphosphoglycerate mutase [ Homo sapiens (human) ]

**Official Symbol** BPGM

**Synonyms** DPGM; ECT8

**Gene ID** 669

**mRNA Refseq** NM\_199186.3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



**Protein Refseq** [NP\\_954655.1](#)

**MIM** [613896](#)

**UniProt ID** [P07738](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA