

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

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

SPECIFICATION

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

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	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; ECYT8
Gene ID	669
mRNA Refseq	NM_199186.3

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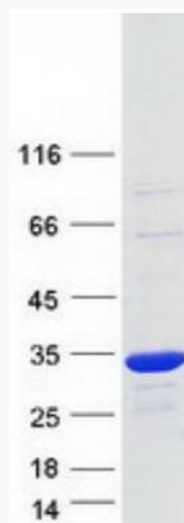
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Protein Refseq [NP_954655.1](#)

MIM [613896](#)

UniProt ID [P07738](#)



Coomassie blue staining of purified BPGM protein.

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