

# Recombinant Human BPGM Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** BPGM-3728H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	BPGM MS Standard C13 and N15-labeled recombinant protein (NP_001715) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
<b>Species</b>	Human
<b>Source</b>	HEK293
<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>Molecular Mass</b>	30 kDa
<b>AA Sequence</b>	<p>MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLV            FTSVLNRSIHTAWLILEELGQEWVPESSWRLNERHYGALIGLNREQMALNHGEEQ            VRLWRRSYNVTPPPPIEESHPPYYQEIYNDRRYKVCVPLDQLPRSESLKDVLERLLPY            WNERIAPEVLRGKTILISAHGNSSRALLKHLEGISDEDIINITLPTGVPILLELDENLRV            GPHQFLGDQEAIAQAAIKKVEDQGKVKQAKKTRTRPLEQKLISEEDLAANDILDYKDD</p>

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	DDKV
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Stability</b>	Stable for 3 months from receipt of products under proper storage and handling conditions.
<b>Storage</b>	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
<b>Concentration</b>	50 µg/mL as determined by BCA
<b>Storage Buffer</b>	100 mM glycine, 25 mM Tris-HCl, pH 7.3.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	BPGM 2,3-bisphosphoglycerate mutase [ Homo sapiens (human) ]
<b>Official Symbol</b>	BPGM
<b>Synonyms</b>	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;
<b>Gene ID</b>	669
<b>mRNA Refseq</b>	NM_001724
<b>Protein Refseq</b>	NP_001715
<b>MIM</b>	613896

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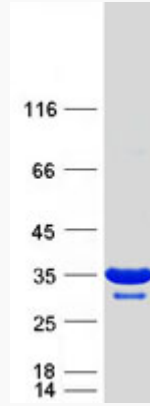
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UniProt ID

P07738

SDS-PAGE



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