

## Product datasheet for **TP302105L**

### **BPGM (NM\_199186) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human 2,3-bisphosphoglycerate mutase (BPGM), transcript variant 2, 1 mg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC202105 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MSKYKLIMLRHGEGAWNKENRFCSWVDQKLNSEGMEEARNCGKQLKALNFEFDLVFTSVLNRSIHTAWLI  
LEELGQEWVPVESSWRLNERHYGALIGLNREQMALNHGEEQVRLWRRSYNVTPPPPIEESHPPYQEIYNDR  
RYKVC DVPLDQLPRSESLKDVLERLLPYWNERIAPEVLRGKTILISAHGNSRALLKHLEGISDEDIINI  
TLPTGVPILLELDENLRAVGPHQFLGDQEAIAAIKKVEDQGKVKQAKK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	29.8 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<u><a href="#">NP_954655</a></u>
<b>Locus ID:</b>	669



[View online »](#)

UniProt ID: [P07738](#), [A0A024R782](#)

RefSeq Size: 2121

Cytogenetics: 7q33

RefSeq ORF: 777

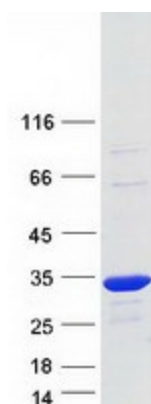
Synonyms: DPGM; ECT8

**Summary:** 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. [provided by RefSeq, Sep 2009]

**Protein Families:** Druggable Genome

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

### Product images:



Coomassie blue staining of purified BPGM protein (Cat# [TP302105]). The protein was produced from HEK293T cells transfected with BPGM cDNA clone (Cat# [RC202105]) using MegaTran 2.0 (Cat# [TT210002]).