

Product datasheet for **TP720896L**

BPGM (NM_199186) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Purified recombinant protein of Human 2,3-bisphosphoglycerate mutase (BPGM), transcript variant 2 |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | Ser2-Lys259 |
| Tag: | C-His |
| Predicted MW: | 31 kDa |
| Purity: | >95% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl |
| Endotoxin: | Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg) |
| Storage: | Store at -80°C. |
| Stability: | Stable for at least 3 months from date of receipt under proper storage and handling conditions. |
| RefSeq: | NP_954655 |
| Locus ID: | 669 |
| UniProt ID: | P07738 , A0A024R782 |
| RefSeq Size: | 2121 |
| Cytogenetics: | 7q33 |
| RefSeq ORF: | 777 |
| Synonyms: | DPGM; ECYT8 |



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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