

Recombinant Human 2,3-Bisphosphoglycerate Mutase, His-tagged

Cat. No. BPGM-667H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BPGM, fused to His-tag at C-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 31kDa (267aa).
Species	Human
Source	E.coli
Description	Bisphosphoglycerate mutase (BPGM) is an enzyme unique to erythrocytes and placental cells. This protein plays a major role in regulating hemoglobin oxygen affinity as a consequence of controlling 2,3-BPG concentration. It is responsible for the catalytic synthesis of 2,3-Bisphosphoglycerate (2,3-BPG) from 1,3-BPG. BPGM also has a mutase and a phosphatase function, but these are much less active.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
Purity	> 95% by SDS - PAGE.
Concentration	0.5 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MSKYKLIMLR HGEGAWNKEN RFCSWVDQKL NSEGMEEARN CGKQLKALNF EF D LVFTSVL NRSIHTAWLI LEELGQEWVP VESSWRLNERHYGALIGLNR EQMAL NHGEE QVRLWRRSYN VTPPIEESH PYYQEIYNDR RYKVCDVPLD QLPRSE SLKD VLERLLPYWN ERIAPEVLRG KTLISAHGN SSRALLKHLE GISDEDIINI TLP

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TGVPILL ELDENLRAVG PHQFLGDQEA IQAAIKKVED QGKVKQAKKL EHHHHHH.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

BPGM 2,3-bisphosphoglycerate mutase [Homo sapiens]

Synonyms

2,3-bisphosphoglycerate mutase; BPGM; bisphosphoglycerate mutase; BPG-dependent PGAM; 2,3-bisphosphoglycerate synthase; erythrocyte 2,3-bisphosphoglycerate mutase; 2,3-bisphosphoglycerate mutase, erythrocyte; OTTHUMP00000207869; EC 5.4.2.4, EC 5.4.2.1, EC 3.1.3.13

Gene ID

669

mRNA Refseq

NM_001724

Protein Refseq

NP_001715

MIM

222800

UniProt ID

P07738

Chromosome Location

7q31-q34

Pathway

Glycolysis / Gluconeogenesis; Metabolic pathways

Function

2,3-bisphospho-D-glycerate 2-phosphohydrolase activity; bisphosphoglycerate mutase activity; hydrolase activity; isomerase activity; phosphoglycerate mutase

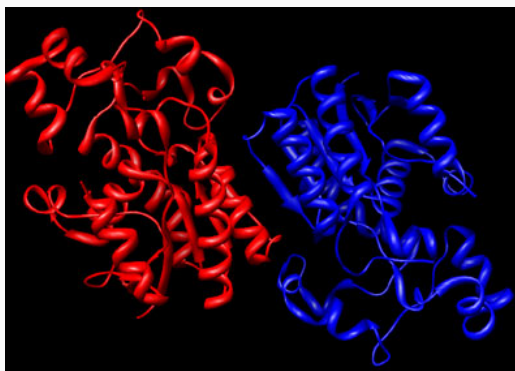
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activity

Crystallographic
structure of dimeric
human
bisphosphoglycerate
mutase.



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