

## Bisphosphoglycerate mutase

Cat. No. CBCRY13 Lot. No. (See product label)

### SPECIFICATION

<b>Source</b>	E.coli
<b>Background</b>	Bisphosphoglycerate mutase is an erythrocyte-specific enzyme catalyzing a series of intermolecular phosphoryl group transfer reactions. Its main function is to synthesize 2,3-bisphosphoglycerate, the allosteric effector of hemoglobin.
<b>Protein Classification</b>	Isomerase
<b>Structure Weight</b>	63399.57 Da
<b>Polymer</b>	1
<b>Molecule</b>	Bisphosphoglycerate mutase
<b>Chain Length</b>	271 amino acids
<b>PDB ID</b>	<a href="#">2HHJ</a>
<b>MMDB ID</b>	<a href="#">53343</a>
<b>Method</b>	X-Ray Diffraction
<b>Resolution</b>	1.5Å

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<b>Ligand Chemical Component</b>	3-phosphoglyceric acid; 2,3-diphosphoglyceric acid; cyclohexylammonium ion
<b>Reference</b>	Wang, Y., Liu, L., Wei, Z., Cheng, Z., Lin, Y., Gong, W.(2006) Seeing the process of histidine phosphorylation in human bisphosphoglycerate mutase.J.Biol.Chem.281: 39642-39648

## GENE INFORMATION

<b>Gene Name</b>	<b>BPGM</b>
<b>Synonyms</b>	EC 5.4.2.4; EC 5.4.2.1; EC 3.1.3.13; 2,3-bisphosphoglycerate mutase; 2,3-bisphosphoglycerate mutase, erythrocyte; 2,3-bisphosphoglycerate synthase; BPG-dependent PGAM
<b>UniProt ID</b>	<b>P07738</b>
<b>Gene ID</b>	<b>669</b>
<b>Chromosome Location</b>	7q31-q34
<b>Function</b>	bisphosphoglycerate 2-phosphatase activity; bisphosphoglycerate mutase activity; hydrolase activity; isomerase activity; phosphoglycerate mutase activity; intramolecular transferase activity; phosphatrasferase

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