Bisphosphoglycerate mutase

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

SPECIFICATION

Product Overview	
Source	E.coli
Background	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.
Protein Classification	Isomerase
Structure Weight	63399.57 Da
Polymer	1
Molecule	Bisphosphoglycerate mutase
Chain Length	271 amino acids
PDB ID	2HHJ
MMDB ID	53343
Method	X-Ray Diffraction
Resolution	1.5Å

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Ligand Chemical Component	3-phosphoglyceric acid; 2,3-diphosphoglyceric acid; cyclohexylammonium ion
Reference	Wang, Y., Liu, L., Wei, Z., Cheng, Z., Lin, Y., Gong, W.(2006) Seeing the process of h istidine phosphorylation in human bisphosphoglycerate mutase.J.Biol.Chem.281: 396 42-39648

GENE INFORMATION

Gene Name	BPGM
Synonyms	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
UniProt ID	P07738
Gene ID	669
Chromosome Location	7q31-q34
Function	bisphosphoglycerate 2-phosphatase activity; bisphosphoglycerate mutase activity; hydrolase activity; isomerase activity; phosphoglycerate mutase activity; intramolecular transferase activity; phosphatrasferase

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