

Product datasheet for **AR09427PU-N**

Bisphosphoglycerate mutase (1-259, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Bisphosphoglycerate mutase (1-259, His-tag) human recombinant protein, 0.1 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MSKYKLIMLR HEGAWNKEN RFCSWVDQKL NSEGMEEARN CGKQLKALNF EFDLVFTSVL NRSIHTAWLI LEELGQEWVP VESSWRLNER HYGALIGLNR EQMALNHGEE QVRLWRRSYN VTPPPIEESH PYYQEIYNDR RYKVCVPLD QLPRSESLKD VLERLLPYWN ERIAPEVLRG KTLISAHGN SSRALLKHLE GISDEDIINI TLPTGVPIIL ELDENLRAVG PHQFLGDQEA IQAAIKKVED QGKVKQAKK <u>L</u> <u>EHHHHHH</u>
Tag:	His-tag
Concentration:	lot specific
Purity:	>95% by SDS - PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 10% glycerol
Preparation:	Liquid purified protein
Protein Description:	Recombinant human BPGM, fused to His-tag at C-terminus, was expressed in E.coli and purified by using conventional chromatography techniques
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	NP_001280014
Locus ID:	669
UniProt ID:	P07738 , A0A024R782
Cytogenetics:	7q33
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

Product images: