

Recombinant human BPGM protein

Catalog Number: ATGP0527

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-259aa

UniProt No.

P07738

NCBI Accession No.

NP_001715

Alternative Names

Bisphosphoglycerate mutase, BPG-dependent PGAM, Bisphosphoglycerate mutase 2,3-bisphosphoglycerate mutase, erythrocyte, 2,3-bisphosphoglycerate mutase, 2,3-bisphosphoglycerate synthase, Ab2 098, A1323730 AL022789, BPG dependent PGAM, C86192.

PRODUCT SPECIFICATION

Molecular Weight

31 kDa (267aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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. Recombinant human BPGM, fused to His-tag

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at C-terminus, was expressed in E. coli and purified by using conventional chromatography techniques

Amino acid Sequence

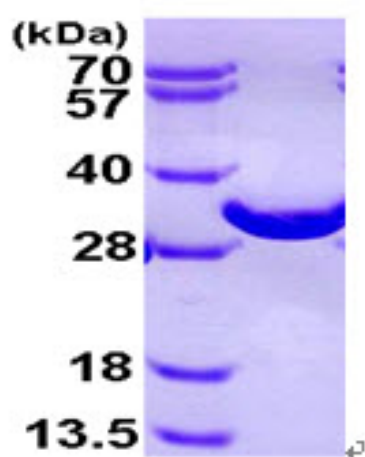
MSKYKLIMLR HGEGAWNKEN RFCSWVDQKL NSEGMEERN CGKQLKALNF EFDLVFTSVL NRSHTAWLI LEELGQEWVP
VESSWRLNER HYGALIGLNR EQMALNHGEE QVRLWRRSYN VTPPIEESH PYYQEIYNDR RYKVCVPLD QLPRSESLKD
VLERLLPYWN ERIAPEVLRG KTLISAHGN SSRALLKHLE GISDEDIINI TLPTGVPILL ELDENLRAVG PHQFLGDQEA
IQAAIKKVED QGKVKQAKKL EHHHHHHH

General References

Pritlove DC., et al. (2006) Placenta. 27(8):924-7
Wang Y., et al. (2006) J. Biol. Chem. 281(51):39642-8.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)