

Recombinant human PGP protein

Catalog Number: ATGP3564

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-321aa

UniProt No.

A6NDG6

NCBI Accession No.

NP_001035830

Alternative Names

Phosphoglycolate phosphatase

PRODUCT SPECIFICATION

Molecular Weight

36.5 kDa (345aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 95% by SDS-PAGE

Biological Activity

Specific activity is > 3,000unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.

Tag

His-Tag

Application

Enzyme Activity, 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

Phosphoglycolate phosphatase, also known as PGP, is detected in all tissues including red cells, lymphocytes and cultured fibroblasts (at protein level). The catalytic activity of PGP is 2-phosphoglycolate + H₂O = glycolate + phosphate. The highest activities occur in skeletal muscle and cardiac muscle. Recombinant human PGP protein,

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fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

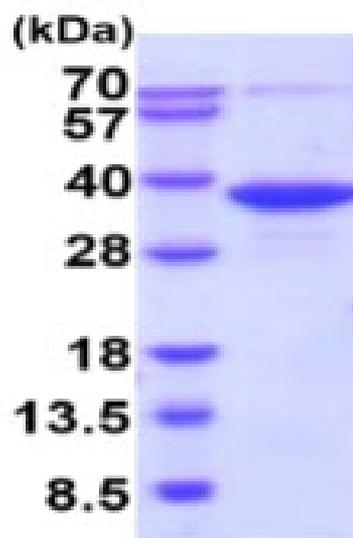
MGSSHHHHHH SGLVPRGSH MGSMAAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCD GVLWRGETAV
PGAPEALRAL RARGKRLGFI TNNSSKTRAA YAEKLRRLGF GGPAGPGASL EVFGTAYCTA LYLRQLAGA PPKAYVLGS
PALAAELEAV GVASVGVGPE PLQEGPGDW LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQPGCLLV GTNMDNRLPL
ENGRFIAGTG CLVRVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVGDRLTDI LLGATCGLKT ILTLTGVSTL
GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG

General References

Barker R.F., et al. (1978) Ann. Hum. Genet. 42:143-151

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)