

Recombinant human PGP protein

Catalog Number: ATGP1972

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-321aa

UniProt No.

A6NDG6

NCBI Accession No.

NP_001035830.1

Alternative Names

Phosphoglycolate phosphatase, PGPase

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

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

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 $2\text{-phosphoglycolate} + \text{H}_2\text{O} = \text{glycolate} + \text{phosphate}$. The highest activities occur in skeletal muscle and cardiac muscle. Recombinant human PGP protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

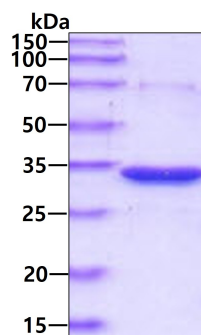
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PALAAELEAV GVASVGVGPE PLQEGPGDW LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL
ENGRFIAGTG CLVRAVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVGDRLDTDI LLGATCGLKT ILTLTGVSTL
GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG

General References

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

DATA

SDS-PAGE



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