

**PGP, 1-321aa, Human, His tag, E.coli**

**Cat.NO.: TP03386**

3th Edition

**Synonyms:** Phosphoglycolate phosphatase, PGPase

**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.

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

**Molecular Weight:** 36.5 kDa (345aa) confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSHMAAAEAGGDDARCVRLSAERAQALLADVDTLLFDCDGVLRGETAVPGA  
PEALRALRARGKRLGFITNNSKTRAAYAELRRLGFGGPAGPGASLEVFGTAYCTALYLRQLAGAPAPKAYVLG  
SPALAAELEAVGVASVGVGPEPLQGE GPGDWLHAPLEPDVRAVVVGFDPHFSYMKLTKALRYLQQPGCLLVGTN  
MDNRLPLENGRFIAGTGCLVRAVEMAAQRQADIIGKPSRFIFDCVSQEYGINPERTVMVGDRLD DILLGATCGLKTI  
LTLTG VSTLGDVKNQESDCVSKKKMVPDFYVDSIADLLPALQG

**Purity:** > 95% by HPLC

**Concentration:** 0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.