

# Product information

## PGP, 1-321aa

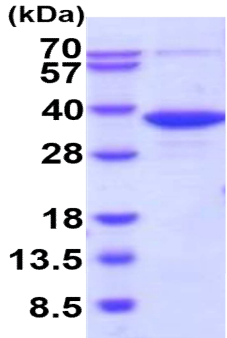
Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP3564

**Full name:** Phosphoglycolate phosphatase

**NCBI Accession No.:** NP\_001035830

**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 + H<sub>2</sub>O = glycolate + 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.

<p><b>Form:</b> Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT</p> <p><b>Molecular Weight:</b> 36.5 kDa (345aa) confirmed by MALDI-TOF</p> <p><b>Purity:</b> &gt; 95 % by SDS - PAGE</p> <p><b>Concentration:</b> 0.5 mg/ml (determined by Bradford assay)</p> <p><b>Biological activity:</b> Specific activity is &gt; 3,000 units/mg, and is defined as the amount of enzyme that hydrolyze 1.0 nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C.</p>	 <p>(kDa)</p> <p>70</p> <p>57</p> <p>40</p> <p>28</p> <p>18</p> <p>13.5</p> <p>8.5</p> <p>15% SDS-PAGE (3ug)</p>
<p><b>Sequences of amino acids:</b></p> <p>MGSSHHHHHH SSGLVPRGSH MGSMAAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCD GVLWRGETAV PGAPEALRAL RARGKRLGF I          TNSSKTRAA YAEKLRLRGF GGPAGPGASL EVFGTAYCTA LYLRQLAGA PAPKAYVLGS PALAAELEAV GVASVGVGPE PLQGEQPGDW          LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL ENGRF IAGTG CLVRAVEMAA QRQADI I GKP SRF IFDCVSQ          EYGINPERTV MVGDRLDTDI LLGATCGLKT ILTLTGVSTL GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG</p>	

### General references:

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

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**



Manufactured for:

Immuno-Biological Laboratories, Inc. (IBL-America)  
 8201 Central Ave. NE, Suite P, Minneapolis, Minnesota 55432, USA  
 Phone: (888) 523-1246 Fax.: (763) 780-2988  
 Email: [info@ibl-america.com](mailto:info@ibl-america.com) Web: [www.ibl-america.com](http://www.ibl-america.com)