

## 32-2664: PGP Recombinant Protein

**Alternative Name :** Phosphoglycolate phosphatase,PGP,PGPase.

### Description

Source : Escherichia Coli. PGP produced in E.Coli is a single, non-glycosylated polypeptide chain containing 345 amino acids (1-321 a.a.) and having a molecular mass of 36.5kDa. PGP is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Phosphoglycolate phosphatase (PGP) is discovered in all tissues including red cells, lymphocytes and cultured fibroblasts (at protein level). PGP is most active in skeletal muscle and cardiac muscle. The catalytic activity of PGP is  $2\text{-phosphoglycolate} + \text{H}_2\text{O} = \text{glycolate} + \text{phosphate}$ . Diseases associated with PGP include tardive dyskinesia and polycystic kidney disease.

### Product Info

<b>Amount :</b>	20 $\mu\text{g}$
<b>Purification :</b>	Greater than 95% as determined by SDS-PAGE.
<b>Content :</b>	The PGP protein solution (0.5mg/1ml) is formulated in 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.
<b>Storage condition :</b>	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.
<b>Amino Acid :</b>	MGSSHHHHHH SSSLVPRGSH MGSHEMAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCCD GVLWRGETAV PGAPEALRAL RARGKRLGFI TNSSKTRAA YAEKLRRLLGF GGPAGPGASL EVFGTAYCTA LYLRQRLAGA PPKAYVLGS PALAAELEAV GVASVGVGPE PLQGEGPGDW LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL ENGRFIAGTG CLVRAVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVDRLDTDI LLGATCGLKT ILTLTGVSTL GDVKNNQESD CVSKKKMVPD FVVDIADLL PALQG.

