

Phosphoglycolate Phosphatase Human Recombinant, Active

Item Number	rAP-1516
Synonyms	Glycerol-3-phosphate phosphatase, G3PP, Aspartate-based ubiquitous Mg(2+)-dependent phosphatase, AUM, Phosphoglycolate phosphatase, PGP.
Description	PGP Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 345 amino acids (1-321a.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.
Uniprot Accesion Number	A6NDG6
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMAAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCC GVLWRGETAV PGAPEALRAL RARGKRLGFI TNNSSKTRAA YAEKLRRLGF GGPAGPGASL EVFG-TAYCTA LYLRQRLAGA PAPKAYVLGS PALAAELEAV GVASVGVGPE PLQGEGPGDW LHAPLEPDVR AVVVGDFPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL ENGRFIAGTG CLVRAVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVGDRLLTDI LLGATCGLKT ILTGTGVSTL GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered colorless solution. 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.
Formulation and Purity	PGP protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.. Greater than 95% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 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.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**