PGP, 1-321aa, Human, His-tag, E.coli (Bioactivity Validated)

Cat.NO.: TP03387

3th Edition

Synonyms: Phosphoglycolate phosphatase

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 + H2O = 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.

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:
MGSSHHHHHHSSGLVPRGSHMGSHMAAAEAGGDDARCVRLSAERAQALLADVDTLLFDCDGVLWRGETAVPGA
PEALRALRARGKRLGFITNNSSKTRAAYAEKLRRLGFGGPAGPGASLEVFGTAYCTALYLRQRLAGAPAPKAYVLG
SPALAAELEAVGVASVGVGPEPLQGEGPGDWLHAPLEPDVRAVVVGFDPHFSYMKLTKALRYLQQPGCLLVGTN
MDNRLPLENGRFIAGTGCLVRAVEMAAQRQADIIGKPSRFIFDCVSQEYGINPERTVMVGDRLDTDILLGATCGLKTI
LTLTGVSTLGDVKNNQESDCVSKKKMVPDFYVDSIADLLPALQG

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.