
Product Data Sheet

Product Name: PGP Human
 Cat. No.: GP22081
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Phosphoglycolate phosphatase; PGP; PGPase.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCD GVLWRGETAV PGAPEALRAL RARGKRLGFI TNNSSKTRAA YAEKLRRRLGF GGPAGPGASL EVFGTAYCTA LYLRQRLAGA PPKAYVLGS PALAAELEAV GVASVGVGPE PLQGEKPGDW LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL ENGRFIAGTG CLVRAVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVGDRLDTDI LLGATCGLKT ILTLTGVSTL GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG.		
Formulation	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.		

Introduction

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-phosphoglycolate + H₂O = glycolate + phosphate. Diseases associated with PGP include tardive dyskinesia and polycystic kidney disease.

Stability

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.

Background

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

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amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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