
Product Data Sheet

Product Name: PGP Human, Active
 Cat. No.: GP22082
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Glycerol-3-phosphate phosphatase; G3PP; Aspartate-based ubiquitous Mg(2+)-dependent phosphatase; AUM; Phosphoglycolate phosphatase; PGP.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAAAEA GGDDARCVRL SAERAQALLA DVDTLLFDCD GVLWRGETAV PGAPEALRAL RARGKRLGFI TNSSKTRAA YAEKLRRLGF GGPAGPGASL EVFGTAYCTA LYLRQRLAGA PPKAYVLGS PALAAELEV GVASVGVGPE PLQGEVPGDW LHAPLEPDVR AVVVGFDPHF SYMKLTKALR YLQQPGCLLV GTNMDNRLPL ENGRFIAGTG CLVRAVEMAA QRQADIIGKP SRFIFDCVSQ EYGINPERTV MVGDRLDTDI LLGATCGLKT ILTLTGVSTL GDVKNNQESD CVSKKKMVPD FYVDSIADLL PALQG.		
Formulation	PGP protein solution (0.5mg/ml) containing 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.

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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 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.

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