

## 32-2665: PGPEP1 Recombinant Protein

**Alternative Name :** Pyroglutamyl-peptidase 1, EC 3.4.19.3, 5-oxopropyl-peptidase, Pyroglutamyl aminopeptidase I, PAP-I, Pyroglutamyl-peptidase I, PGP-I, Pyrrolidone-carboxylate peptidase, PGPEP1, PGPI, PGP, Pcp.

### Description

Source : Escherichia Coli. PGPEP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 232 amino acids (1-209) and having a molecular mass of 25.5kDa. PGPEP1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Pyroglutamyl-Peptidase I (PGPEP1) is an omega peptidase which detaches pyroglutamyl residues from the amino termini of peptides and proteins. PGPEP1 is a cytosolic cysteine peptidase which is expressed in most cell types. PGPEP1 enzyme has need of a thiol-reducing agent for activity. PGPEP1 is possibly involved in the inactivation of biologically active peptides which have an amino terminal pyroglutamyl group, for instance peptides as neurotensin, luteinizing hormone releasing hormone, and thyrotropinreleasing hormone.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** The PGPEP1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMEQPRKA VVVTGFGPFG EHTVNASWIA VQELEKLGLG  
DSVDLHVVEI PVEYQTVQRL IPALWEKHSP QLVVHVGVSG MATTVTLEKC GHNKGYKGLD NCRFCPSQC  
CVEDGPESID SIIDMDAVCK RVTTLGLDVS VTISQDAGRY LCDFTYYTSL YQSHGRSAFV HVPPLGKPYN  
ADQLGRALRA IIEEMLDLLE QSEGKINYCH KH.

