

## PGPEP1 Human

**Description:** 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.

**Catalog #:** ENPS-679

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMEQPRKA VVTGFGPFG  
EHTVNASWIA VQELEKLGLG DSVDLHVEI PVEYQTVQRL IPALWEKHSP QLVVHVGVS  
G MATTVTLEKC GHNKGKGLD NCRFCPGSQC CVEDGPESID SIIDMDAVCK RVTTLGLDVS  
VTISQDAGRY LCDFTYYTSL YQSHGRSAFV HVPPLGKPYN ADQLGRALRA IIEMLDLLE  
QSEGKINYCH KH

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The PGPEP1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.

### 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.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### Introduction:

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.

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