

---

## Product Data Sheet

---

Product Name: PGPEP1 Human  
 Cat. No.: GP22083  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEQPRKA VVTGFGPFG EHTVNASWIA VQELEKLGLG DSVDLHVEI PVEYQTVQRL IPALWEKHSP QLVVHVGVS G MATTVTLEKC GHNKGKGLD NCRFCPGSQ CVEDGPESID SIIDMDAVCK RVTTLGLDVS VTISQDAGRY LCDFTYYTSL YQSHGRSAFV HVPPLGKPYN ADQLGRALRA IIEEMLDLLE QSEGKINYCH KH.		
Formulation	The PGPEP1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

### 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.

### 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

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

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.

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

***Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com***

***Address: 10292 Central Ave. #205, Montclair, CA, USA***