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**Product Data Sheet**


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Product Name: PRCP Human

Cat. No.: GP26175

Batch No.: 1

**Product Data**

Purity &gt;98% Source HEK293 Cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms Angiotensinase-C, PRCP, Proline Carboxypeptidase.

Amino Acid Sequence

LRPALRALGS LHLPTNPTSL PAVAKNYSVL YFQQKVDHFG FNTVKTFNQR  
 YLVADKYWKK NGGSILFYTG NEGDIWFN NTGFMWDVAE ELKAMLVFAE  
 HRYYGESLPF GDNSFKDSRH LNFLTSEQAL ADFAELIKHL KRTIPGAENQ  
 PVIAIGGSYG GMLAAWFRMK YPHMVVGALA ASAPIWQFED LVPCGVFMKI  
 VTDFRKSGP HCSESIHRSW DAINRLSNTG SGLQWLTGALHLCSPKTSQD  
 IQHLKDWISW TWVNLAMVDY PYASNFLQPL PAWPIKVVCC YLKNPNVSDS  
 LLLQNIQAL NVYYNYSGQV KCLNISEAT SSLGTLGWSY QACTEVVMPF  
 CTNGVDDMFE PHSWNLKELS DDCFQQWGVR PRPSWITMY GGKNISSHTN  
 IVFSNGELDP WSGGGVTKDI TDTLVAVTIS EGAHHLDLRT KNALDPMSVL  
 LARSLEVRHM KNWIRDFYDS AGKQ HHHHHH

Formulation The PRCP solution (0.25mg/ml) contains 30% Glycerol and Phosphate-Buffered Saline (pH 7.4).

**Introduction**

PRCP is a plasma protein which takes part in the cleavage of C-terminal amino acids linked to proline in protein for example angiotensin-2 & 3 at acidic pH environment rather than at neutral pH which exhibit less activity. This cleavage is important since Angiotensin-2 takes part in regulation of blood pressure & electrolyte balance which is essential to hypertension.

**Biological Activity**

Specific activity is > 3,000 pmol/min/μg, and is defined as the amount of enzyme that converts 1 pmole of Z-ProAla-OH/min. at pH-4 at 25°C.

**Stability**

**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

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Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC 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

PRCP Human Recombinant produced in HEK cells is a single, glycosylated, polypeptide chain (22-496 a.a) containing a total of 481 amino acids, having a molecular mass of 54.3 kDa. PRCP is fused to a 6 amino acid His-tag at C-terminus, and is purified by proprietary chromatographic techniques.

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