

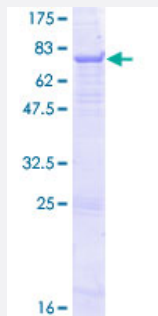
Full-Length

PRCP (Human) Recombinant Protein (P02)

Catalog # H00005547-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRCP full-length ORF (NP_005031.1, 1 a.a. - 496 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MGRRALLLLLSFLAPWATIALRPALRALGSLHLPTNPTSLPAVAKNYSVLYFQQKVDHFGFNTVK
TFNQRYLVADKYWKKNNGSILFYTGNEGDIWFNNTGFMWDVAEELKAMLVFAEHRYYGESLPF
GDNSFKDSRHLNFLTSEQALADFAELIKHLKRTIPGAENQPVIAIGGSYGGMLAAWFRMKYPHMVV
GALAASAPWQFEDLVPCGVFMKIVTTDFRKSGPHCSESIHRSWDAINRLSNTGSLQWLTGALH
LCSP LTSQDIQHLKDWISETWVNLAMVDYPYASNFLQPLPAWPIKVVCQYLKNPNVSDSLLLQNI
FQALNVYNYSGQVKCLNISE TATSSLGTLGWSYQACTEVVMPFCTNGVDDMFEPHSWNLKELSD
DCFQQWGVPRPSPWITMYGGKNISSHTNIVFSNGELDPWSGGGVTKDITD TLVAVTISEGAHHL
D LRTKNALDPMSVLLARSLEVRHMKNWIRDFYDSAGKQH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

82.2

Interspecies Antigen Sequence

Mouse (78); Rat (79)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRCP

Entrez GeneID [5547](#)

GeneBank Accession# [NM_005040.2](#)

Protein Accession# [NP_005031.1](#)

Gene Name PRCP

Gene Alias HUMPCP, MGC2202, PCP

Gene Description prolylcarboxypeptidase (angiotensinase C)

Omim ID [176785](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene is a lysosomal prolylcarboxypeptidase, which cleaves C-terminal amino acids linked to proline in peptides such as angiotension II, III and des-Arg9-bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. This enzyme has been shown to be an activator of the cell matrix-associated prekallikrein. The importance of angiotension II, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that this gene may be related to essential hypertension. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

Other Designations

angiotensinase C|lysosomal Pro-x carboxypeptidase|lysosomal carboxypeptidase C|proline carb
oxypeptidase|prolylcarboxypeptidase|prolylcarboxypeptidase isoform 1 preproprotein

Disease

- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
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- [Hypertension](#)
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