

Bioactive

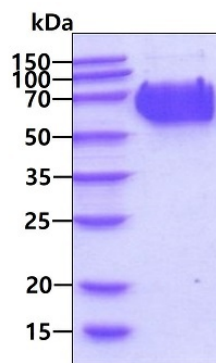
HuPro®

PRCP (Human) Recombinant Protein

Catalog # P7915

Size 50 ug

Applications



SDS-PAGE analysis of PRCP (Human) Recombinant Protein.

Specification

Product Description

Human PRCP (P42785, 22 a.a. - 496 a.a.) partial recombinant protein with His tag expressed in HE K293 cells.

Sequence

LRPALRALGSLHLPTNPTSLPAVAKNYSVLVYFQQKVDHFGFNTVKTFFNQRYLVADKYWKKNGGSI
LFYTGNEGDIIWFCNNTGFMWDVAEELKAMLVFAEHRYYGESLPFGDNSFKDSRHLNFLTSEQAL
ADFAELIKHLKRTIPGAENQPVIAIGGSYGGMLAAWFRMKYPHMMVVGALAASAPIWQFEDLVPCG
VFMKIVTTDFRKSGPHCSSEIHRSDAINRLSNTGSLQWLTGALHLCSP LTSQDIQHLKDWISET
WVNLAMVDYPYASNFLQPLPAWPIKVVCQYLKNPNVSDSLLLQNIQALNVYNNYSGQVKCLNISE
TATSSLGLTGWSYQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQQWGVRRPRPSWITMY
GGKNISSHTNIVFSNGELDPWSGGGVTKDITDLVAVTISEGAHHLDLRTKNALDPMSVLLARSLE
VRHMKNWIRDFYDSAGKQ

Host

Human

Theoretical MW (kDa)

54.3

Form

Liquid

Preparation Method

Mammalian cell (HEK 293) expression system

Purity

> 95% as analyzed by SDS-PAGE.

Endotoxin Level	< 1 EU/ug of protein by the LAL method.
Activity	The specific activity is > 3000 pmol/min/ug, and is defined as the amount of enzyme that convert 1.0 pmole of Z-Pro-Ala-OH per minute at pH 4.0 at 25°C.
Quality Control Testing	SDS-PAGE Stained with Coomassie Blue. SDS-PAGE analysis of PRCP (Human) Recombinant Protein.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.4 (30% glycerol)
Storage Instruction	Store at 4°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

Gene Info — PRCP

Entrez GeneID	5547
Protein Accession#	P42785
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 carboxypeptidase|prolylcarboxypeptidase|prolylcarboxypeptidase isoform 1 preproprotein

Disease

- [Cardiovascular Diseases](#)
- [Chronic Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Genetic Diseases](#)
- [Genetic Predisposition to Disease](#)
- [Hypertension](#)
- [Pre-Eclampsia](#)