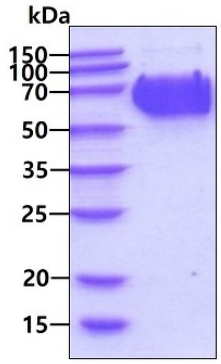
Bioactive HuPro®

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 HEK293 cells.
Sequence	LRPALRALGSLHLPTNPTSLPAVAKNYSVLYFQQKVDHFGFNTVKTFNQRYLVADKYWKKNGGSILFYTGNEGDIIWFCNNTGFMWDVAEELKAMLVFAEHRYYGESLPFGDNSFKDSRHLNFLTSEQALADFAELIKHLKRTIPGAENQPVIAIGGSYGGMLAAWFRMKYPHMVVGALAASAPIWQFEDLVPCGVFMKIVTTDFRKSGPHCSESIHRSWDAINRLSNTGSGLQWLTGALHLCSPLTSQDIQHLKDWISETWVNLAMVDYPYASNFLQPLPAWPIKVVCQYLKNPNVSDSLLLQNIFQALNVYYNYSGQVKCLNISETATSSLGTLGWSYQACTEVVMPFCTNGVDDMFEPHSWNLKELSDDCFQQWGVRPRPSWITTMYGGKNISSHTNIVFSNGELDPWSGGGVTKDITDTLVAVTISEGAHHLDLRTKNALDPMSVLLARSLEVRHMKNWIRDFYDSAGKQ
Host	Human
Theoretical MW (kDa)	54.3
Form	Liquid
Preparation Method	Mammalian cell (HEK 293) expression system
Purity	> 95% as analyzed by SDS-PAGE.

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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

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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

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