



Recombinant Bovine Lysosomal Pro-X carboxypeptidase (PRCP)

Product Code	CSB-EP647189BO
Abbreviation	PRCP
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q2TA14
Product Type	Recombinant Protein
Immunogen Species	Bos taurus (Bovine)
Purity	>85% (SDS-PAGE)
Sequence	LKY SIRYIQQKVD HFGFNIDRTF KQRYLIADNY WKEDGGSILF YTGNEGDIIW FCNNTGFMWD IAEEMKAMLV FAEHRYYGES LPFGADSFSD SRHLNFLTTE QALADFAKLI RYLKRTIPGA RNQHVIALLGG SYGGMLAAWF RMKYPHLVVG ALASSAPIWQ FNDLVPCDIF MKIVTTDFSQ SGPNCSESIR RSWDAINRLA KKG TGLRWLS EALHLCTPLT KSQDVQRLKD WISETWVNVVA MVDYPYESNF LQPLPAWPVK VVCQYFKYSN VPDTVMVQNI FQALNVYYNY SGQAKCLNVS ETATSSLGVL GWSYQACTEM VMPTCSDGVD DMFEPHSWNM KEYSDDCFKQ WGVPRPSWI PTMYGGKNIS SHTNIIFSNG ELDPWSSGGV TKDITDTLLA IVIPNGAHL DLRSNALDP VSVQLTRSLE VKYMKQWISD FYVRLRKMN
Source	E.coli
Target Names	PRCP
Protein Names	Recommended name: Lysosomal Pro-X carboxypeptidase EC= 3.4.16.2 Alternative name(s): Proline carboxypeptidase Prolylcarboxypeptidase Short name= PRCP
Expression Region	48-499
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	Full Length of Mature Protein
Target Details	This protein 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.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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