

32-13696: PRCP Human

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

Alternative Name : Angiotensinase-C, PRCP, Proline Carboxypeptidase.

Description

Source: HEK293 Cells.

Physical Appearance: Sterile filtered colorless solution.

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

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.

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.

Product Info

Amount : 10 μ g / 2 μ g

Purification : Greater than 95% as determined by SDS-PAGE.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C 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.

Amino Acid : LRPALRALGS LHLPTNPTSL PAVAKNYSVL YFQKVDHFG FNTVKTFNQR YLVADKYWKK NGGSILFYTG
NEGDIWFCN NTGFMWDVAE ELKAMLVFAE HRYYGESLPF GDNSFKDSRH LNFLTSEQAL ADFAELIKHL
KRTIPGAENQ PVIAIGGSYG GMLAAWFRMK YPHMVVGALA ASAPIWQFED LVPCGVFMKI VTDFRKSGP
HCSESIHRWS DAINRLSNTG SGLQWLTGALHLCSPITSQD IQHLKDWIS TWVNLAMVDY PYASNFLQPL
PAWPIKVVCQ YLKNPNVSDS LLLQNIQFAL NVYYNYSQGV KCLNISETAT SSLGLGWYS QACTEVVMPF
CTNGVDDMFE PHSWNLKELS DDCFQQWGV PRPSWITMY GGKNISHTN IVFSNGELDP
WSGGGVTKDI TDTLVAVTIS EGAHHLDLRT KNALDPMSVL LARSLEVRHM KNWIRDFYDS AGKQ
HHHHHH