

Human Lysosomal Pro-X carboxypeptidase (PRCP) ELISA Kit

Catalog No: #EK8348

Package Size: #EK8348-1 48T #EK8348-2 96T

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Description

Product Name	Human Lysosomal Pro-X carboxypeptidase (PRCP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Human (Homo sapiens)
Other Names	HUMPCP; MGC2202; PCP; angiotensinase C lysosomal Pro-x carboxypeptidase lysosomal carboxypeptidase C proline carboxypeptidase prolylcarboxypeptidase prolylcarboxypeptidase isoform 1 preproprotein
Accession No.	P42785
Uniprot	P42785
GeneID	5547;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:78.1-5000 pg/mL

Sensitivity:30 pg/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:Sandwich**Test principle:**This assay employs a two-site sandwich ELISA to quantitate PRCP in samples. An antibody specific for PRCP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyPRCP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for PRCP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of PRCP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**Lysosomal Pro-X carboxypeptidase 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.

Note: This product is for in vitro research use only