



Recombinant Protein Technical Manual

Recombinant Human PRCP Protein (His Tag)

RPES3934

Product Data:

Product SKU: RPES3934

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: P42785

Protein Information:

Molecular Mass: 54.5 kDa

AP Molecular Mass: 72 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM NaAc-HAc, 150mM NaCl, 10% Glycerol, pH 4.5.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Lysosomal Pro-X Carboxypeptidase; Angiotensinase C; Lysosomal Carboxypeptidase C; Proline Carboxypeptidase; Prolylcarboxypeptidase; PRCP; PRCP; PCP

Immunogen Information:

Sequence: Leu22-His496

Background:

Lysosomal Pro-X Carboxypeptidase (PRCP) belongs to the peptidase S28 family. PRCP is detected in many tissues, with highest levels observed in placenta, lung, and liver. It is also present in the heart, brain, pancreas, and kidney. PRCP exists as a homodimer. PRCP cleaves C-terminal amino acids linked to proline in peptides such as angiotensin II, III and des-Arg9-bradykinin. This cleavage occurs at acidic pH, but enzymatic activity is retained with some substrates at neutral pH. PRCP has been shown to be an activator of the cell matrix-associated prekallikrein.