

## Recombinant Human Carboxypeptidase A1/CPA1 Protein (His Tag)

**Catalog Number:** PKSH032168

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

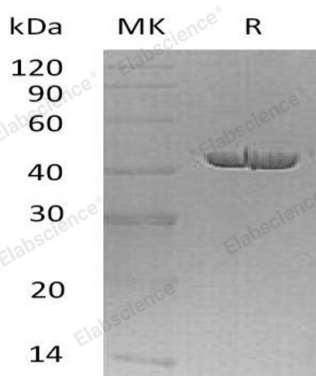
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human Carboxypeptidase A1; CPA1 protein Lys17-Tyr419, with an C-terminal His
<b>Calculated MW</b>	46.6 kDa
<b>Observed MW</b>	44 kDa
<b>Accession</b>	AAH05279.1
<b>Bio-activity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Concentration</b>	Subject to label value.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	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.
<b>Formulation</b>	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 7.5.

### Data



> 95 % as determined by reducing SDS-PAGE.

### Background

Carboxypeptidase A1 (CPA1) is secreted as a pancreatic peptidase that comes from the precursor form of inactive procarboxypeptidase. CPA1 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. It has a free C-terminal carboxyl group, with the preference of residues with aromatic or branched aliphatic side chains. CPA1 cleaves the C-terminal amide or ester bond of peptides and involves in zymogen inhibition. Three different forms of human pancreatic procarboxypeptidase A have been isolated. In contrast to procarboxypeptidase B which was always secreted by the pancreas as a monomer, procarboxypeptidase A occurs as a monomer and/or associated to one or two functionally different proteins, such as zymogen E.

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