

## 37-1233: Human Carboxypeptidase A1 / CPA1 Recombinant Protein (His Tag)(Discontinued)

**Reactivity :** Human  
**Alternative Name :** CPA Protein,

### Description

#### Source : HEK293 Cells

Carboxypeptidase A1 (CPA1) is secreted as a pancreatic procarboxypeptidase, and cleaves the C-terminal amide or ester bond of peptides that have a free C-terminal carboxyl group, with the preference of residues with aromatic or branched aliphatic side chains. CPA1 comprises a signal peptide, a pro region and a mature chain, and can be activated after cleavage of the pro peptide. 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, and is involved in zymogen inhibition. Three different forms of human pancreatic procarboxypeptidase A have been isolated.

### Product Info

**Amount :** Human Carboxypeptidase A1 / CPA1 Recombinant Protein (His Tag)(Discontinued) / 20 µg  
**Purification :** > 97 % as determined by SDS-PAGE  
**Content :** Formulation Lyophilized from sterile PBS, pH 7.4  
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.  
**Storage condition :** Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.  
**Amino Acid :** Met1-Tyr419

### Application Note

Measured by its ability to cleave the colorimetric peptide substrate Ac-Phe-Thiapho-OH in the presence of 5,5'-Dithiobis (2-nitrobenzoic acid) (DTNB). The specific activity is >3,500 pmoles/min/µg .  
Endotoxin : < 1.0 EU per µg of the protein as determined by the LAL method

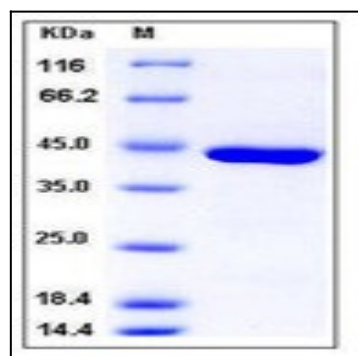


Fig 1: Human Carboxypeptidase A1 / CPA1 Recombinant Protein (His Tag)