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## 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

Formulation Lyophilized from sterile PBS, pH 7.4

**Content :** 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-Thiaphe-OH in the presence of 5,5'Dithiobis (2-nitrobenzoic acid) (DTNB). The specific activity is >3,500 pmoles/min/ $\tilde{A}$  $\parallel$  $\hat{A}$  $\mu$ g . Endotoxin :< 1.0 EU per  $\tilde{A}$  $\parallel$  $\hat{A}$  $\mu$ g of the protein as determined by the LAL method

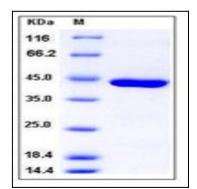


Fig 1: Human Carboxypeptidase A1 / CPA1 Recombinant Protein (His Tag)