

## Active Recombinant Human CPA1 protein, His-tagged

**Cat. No.** CPA1-3176H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active Recombinant Human CPA1 protein(NP_001859.1) (Met 1-Tyr 419) was expressed in HEK293 with a C-terminal polyhistidine tag.                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                   |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 1-419 aa                                                                                                                                                                                                                |
| <b>Form</b>             | Lyophilized from sterile PBS, pH 7.4.                                                                                                                                                                                   |
| <b>Bio-activity</b>     | 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/μg.                    |
| <b>Molecular Mass</b>   | The secreted recombinant human CPA1 (pro form) consists of 414 amino acids and has a predicted molecular mass of 47 kDa. In SDS-PAGE under reducing conditions, it migrates with the apparent molecular mass of 43 kDa. |
| <b>Endotoxin</b>        | < 1.0 EU per μg protein as determined by the LAL method.                                                                                                                                                                |
| <b>Purity</b>           | > 97 % as determined by SDS-PAGE                                                                                                                                                                                        |
| <b>Storage</b>          | Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-                                                |

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thaw cycles.

#### Reconstitution

It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

**Gene Name** CPA1 carboxypeptidase A1 (pancreatic) [ Homo sapiens ]

**Official Symbol** CPA1

**Synonyms** CPA1; carboxypeptidase A1 (pancreatic); CPA; carboxypeptidase A1; pancreatic carboxypeptidase A;

**Gene ID** 1357

**mRNA Refseq** NM\_001868

**Protein Refseq** NP\_001859

**MIM** 114850

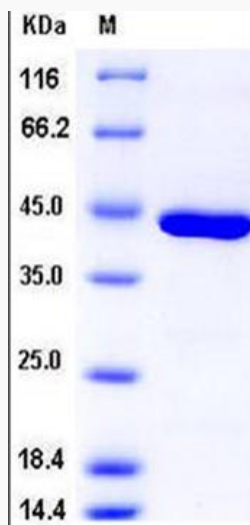
**UniProt ID** P15085

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SDS-PAGE



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