

## Recombinant Human CPB1 protein, His & T7-tagged

**Cat. No.** CPB1-1435H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                |
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| <b>Product Overview</b> | Recombinant Human CPB1 aa. (Ala111~Tyr417 (Accession # P15086) fused with N-terminal His & T7 tag was produced in E. coli cells.                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                         |
| <b>ProteinLength</b>    | Ala111~Tyr417                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Description</b>      | Three different procarboxypeptidases A and two different procarboxypeptidases B have been isolated. The B1 and B2 forms differ from each other mainly in isoelectric point. Carboxypeptidase B1 is a highly tissue-specific protein and is a useful serum marker for acute pancreatitis and dysfunction of pancreatic transplants. It is not elevated in pancreatic carcinoma. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 38.7kDa.                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Characteristic</b>   | The isoelectric point is 7.2.                                                                                                                                                                                                                                                                                                                                                  |

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|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applications</b>   | SDS-PAGE; WB; ELISA; IP.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Stability</b>      | The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage buffer</b> | Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Reconstitution</b> | Reconstitute in sterile PBS, pH7.2-pH7.4.                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                       |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CPB1 carboxypeptidase B1 [ Homo sapiens (human) ]                                                                                                                                                                     |
| <b>Official Symbol</b> | CPB1                                                                                                                                                                                                                  |
| <b>Synonyms</b>        | CPB1; carboxypeptidase B1; CPB; PASP; PCPB; carboxypeptidase B; carboxypeptidase B1 (tissue); pancreas-specific protein; pancreatic carboxypeptidase B; procarboxypeptidase B; protaminase; tissue carboxypeptidase B |
| <b>Gene ID</b>         | 1360                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>     | NM_001871.2                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | NP_001862.2                                                                                                                                                                                                           |

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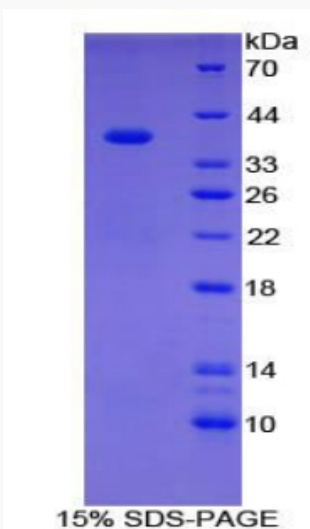
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UniProt ID

P15086

SDS-PAGE

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