

# Recombinant Human Carboxypeptidase M/CPM Protein (His Tag)



Catalog Number:PKSH032174

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

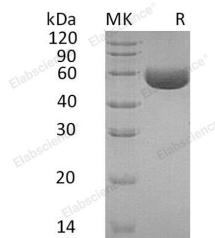
## Description

|                                    |                        |
|------------------------------------|------------------------|
| <b>Synonyms</b>                    | Carboxypeptidase M;CPM |
| <b>Species</b>                     | Human                  |
| <b>Expression Host</b>             | HEK293 Cells           |
| <b>Sequence</b>                    | Leu18-His422           |
| <b>Accession</b>                   | P14384                 |
| <b>Calculated Molecular Weight</b> | 47.3 kDa               |
| <b>Observed molecular weight</b>   | 55 kDa                 |
| <b>Tag</b>                         | C-His                  |

## Properties

|                       |  |
|-----------------------|--|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.   |
| <b>Endotoxin</b>      | < 1.0 EU per $\mu$ g 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 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, 1mM ZnCl <sub>2</sub> , pH 7.5.  |
| <b>Reconstitution</b> | Not Applicable   |

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Carboxypeptidase M (CPM) specifically removes C-terminal basic residues (Arg or Lys) from peptides and proteins. Carboxypeptidase exert roles in the physiological processes of blood coagulation/fibrinolysis, inflammation, food digestion and pro-hormone and neuropeptide processing. CPM is believed to play important roles in the control of peptide hormone and growth factor activity at the cell surface, and in the membrane-localized degradation of extracellular proteins. It is widely distributed in a variety of tissues and cells. CPM is involved in peptide metabolism on both the cell surface and in extracellular fluids. CPM functions not only as a protease but also as a binding partner in cell-surface protein-protein interactions.

## For Research Use Only

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