

## Carboxypeptidase M/CPM Protein, Human (HEK293, His)

<b>Cat. No.:</b>	HY-P7737
<b>Synonyms:</b>	rHuCarboxypeptidase M, His; Carboxypeptidase M; CPM
<b>Species:</b>	Human
<b>Source:</b>	HEK293
<b>Accession:</b>	P14384 (L18-D421)
<b>Gene ID:</b>	1368
<b>Molecular Weight:</b>	Approximately 55.0 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> L D F N Y H R Q E G   M E A F L K T V A Q   N Y S S V T H L H S   I G K S V K G R N L W V L V V G R F P K   E H R I G I P E F K   Y V A N M H G D E T   V G R E L L L H L I D Y L V T S D G K D   P E I T N L I N S T   R I H I M P S M N P   D G F E A V K K P D C Y Y S I G R E N Y   N Q Y D L N R N F P   D A F E Y N N V S R   Q P E T V A V M K W L K T E T F V L S A   N L H G G A L V A S   Y P F D N G V Q A T   G A L Y S R S L T P D D D V F Q Y L A H   T Y A S R N P N M K   K G D E C K N K M N   F P N G V T N G Y S W Y P L Q G G M Q D   Y N Y I W A Q C F E   I T L E L S C C K Y   P R E E K L P S F W N N N K A S L I E Y   I K Q V H L G V K G   Q V F D Q N G N P L   P N V I V E V Q D R K H I C P Y R T N K   Y G E Y Y L L L L P   G S Y I I N V T V P   G H D P H I T K V I I P E K S Q N F S A   L K K D I L L P F Q   G Q L D S I P V S N   P S C P M I P L Y R N L P D H H H H H H   H           </pre>
<b>Biological Activity</b>	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
<b>Appearance</b>	Solution.
<b>Formulation</b>	Supplied as a 0.2 µm filter solution of 20 mM Tris-HCl, 150 mM NaCl, 1 mM ZnCl <sub>2</sub> , pH7.5.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	N/A
<b>Storage &amp; Stability</b>	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
<b>Shipping</b>	Shipping with dry ice.

### DESCRIPTION

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## Background

Carboxypeptidase M is a membrane-bound arginine/lysine carboxypeptidase enzyme, cleaves C-terminal basic amino acids with a neutral pH optimum<sup>[1]</sup>.

Carboxypeptidase M belongs to the carboxypeptidases family. Carboxypeptidase M is widely distributed in a variety of tissues and cells, and it constitutively expresses in an active form at the surface of specialized cells and tissues in the human body<sup>[2]</sup>.

Carboxypeptidase M plays an important role in the physiological processes of blood coagulation/fibrinolysis, inflammation, food digestion and pro-hormone and neuropeptide processing<sup>[3]</sup>.

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## REFERENCES

- [1]. A Nagae, et al. Carboxypeptidase M in brain and peripheral nerves. *J Neurochem*
- [2]. Kathleen Deiteren, et al. Carboxypeptidase M: Multiple alliances and unknown partners. *Clin Chim Acta*. 2009 Jan;399(1-2):24-39.
- [3]. David Reverter, Crystal structure of human carboxypeptidase M, a membrane-bound enzyme that regulates peptide hormone activity. *J Mol Biol*
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA