

## Recombinant Mouse Cpe Protein, His-tagged

**Cat. No.** Cpe-784M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cpe protein with His tag was expressed in HEK293.
<b>Species</b>	Mouse
<b>Source</b>	HEK293
<b>ProteinLength</b>	476
<b>Description</b>	This gene encodes carboxypeptidase E, a prohormone-processing exopeptidase found in secretory granules of endocrine and neuroendocrine cells. The encoded preproprotein undergoes proteolytic processing to generate a mature, functional enzyme that cleaves the C-terminal basic residues of protein substrates. A missense mutation in this gene is responsible for the obesity phenotype in a mouse model known as the "fat mouse." Mice lacking the functional product of this gene exhibit impaired processing of multiple peptide hormones such as proinsulin, prodynorphin, proneurotensin, promelanin-concentrating hormone and pro-opiomelanocortin.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	52 kDa
<b>AA Sequence</b>	MAGRGRVLLALCAALVAGGWLLTAEAQEPGAPAAGMRRRRRLQQEDGISFEYHR YPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNM HGNEAVGRELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMPSLNPDPGFEKAASQPGE LKDFVGRSNAQGIDLNRNFPDLDRIVYVNEKEGGPNNHLLKLNKKIVDQNSKLAPE

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TKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGTAHEYSSCPDDAIFQSLARAYS  
 SFNPVMSDPNRPPCRKNDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEITV  
 ELSCEKFPPEETLKSYWEDNKNSLISYLEQIHRGVKGFVRDLQGNPIANATISVDGID  
 HDVTSAKDGDYWRLAPGNYKLTASAPGYLAITKKVAVPFSPAUGVDFELESFSERK  
 EEEKEELMEWWKMMSETLNF

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** [Cpe carboxypeptidase E \[ Mus musculus \(house mouse\) \]](#)

**Official Symbol** [Cpe](#)

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<b>Synonyms</b>	CPE; carboxypeptidase E; carboxypeptidase H; cobalt stimulated chromaffin granule carboxypeptidase; enkephalin convertase; insulin granule associated carboxypeptidase; CPH; prohormone-processing carboxypeptidase; insulin granule-associated carboxypeptidase; cobalt-stimulated chromaffin granule carboxypeptidase;
<b>Gene ID</b>	12876
<b>mRNA Refseq</b>	NM_013494
<b>Protein Refseq</b>	NP_038522
<b>UniProt ID</b>	Q00493

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