

## Recombinant Human CPE Protein, His-tagged

**Cat. No.** CPE-783H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CPE protein with His tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 476                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | <p>This gene encodes a member of the M14 family of metallopeptidases. The encoded preproprotein is proteolytically processed to generate the mature peptidase. This peripheral membrane protein cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. This protein may also function independently of its peptidase activity, as a neurotrophic factor that promotes neuronal survival, and as a sorting receptor that binds to regulated secretory pathway proteins, including prohormones. Mutations in this gene are implicated in type 2 diabetes.</p> |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Mass</b>   | 49 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | <p>MAGRGG SALLALCGALAACGWLLGAE AQEPGAPAA GMRRRRLQQEDGISFEYHR<br/>         YPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNM<br/>         HGNEAVGRELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMPSLNPDGFEKAASQPGE<br/>         LKDW FVGRSNAQGIDLNRNFPDLDRIVYVNEKEGGPNNHLLKNMKKIVDQNTKLAP</p>                                                                                                                                                                                                                                                                                                                                                       |

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ETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGSAHEYSSSPDDAIFQSLARAY  
 SSFNPAMSDPNRPPCRKNDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEIT  
 VELSCEKFPPEETLKTYWEDNKNLSISYLEQIHRGVKGFVRDLQGNPIANATISVEGI  
 DHDVTSKDG DYWRLLIPGNYKLTASAPGYLAITKKVAVPYSPAAGVDFELESFSE  
 R KEEEEKEELMEWWKMMSETLNF

**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 [ Homo sapiens (human) ]

**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>        | <a href="#">1363</a>                                                                                                                                                                                                                                                                                                     |
| <b>mRNA Refseq</b>    | <a href="#">NM_001873</a>                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b> | <a href="#">NP_001864</a>                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>            | <a href="#">114855</a>                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID</b>     | <a href="#">P16870</a>                                                                                                                                                                                                                                                                                                   |

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