

Recombinant Human CPE Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CPE-4323H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CPE MS Standard C13 and N15-labeled recombinant protein (NP_001864) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	53.15 kDa
AA Sequence	MAGRGG SALLALCGALAACGWLLGAE AQEPGAPAAGMRRRRRLQQEDGISFEYHR YPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNM HGNEAVGRELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMPSLNPDGF EKAASQPGE LKDW FVGRSNAQGIDLNRNFPDLDRIVYVNEKEGGPNNHLLKNMKKIVDQNTKLAP ETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGSAHEYSSSPDDAIFQSLARAY

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SSFPNAMSDFPNRPPCRKNDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEIT
VELSCEKFPPEETLKTYWEDNKNLSISYLEQIHRGVKGFVRDLQGNPIANATISVEGI
DHDVTSAKDGDYWRLIPGNYKLTASAPGYLAITKKVAVPYSPAAGVDFELESFSER
KEEEEKEELMEWWKMMSETLNFTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name CPE carboxypeptidase E [Homo sapiens (human)]

Official Symbol CPE

Synonyms 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;

Gene ID 1363

mRNA Refseq NM_001873

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Protein Refseq	NP_001864
MIM	114855
UniProt ID	P16870

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