

Recombinant Human CPE Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant human CPE protein with His tag was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	476
Description	<p>This gene encodes a member of the M14 family of metalloproteases. 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>
Form	Lyophilized
Molecular Mass	49 kDa
AA Sequence	<p>MAGRGG SALLALCGALAACGWLLGAEAEQEPGAPAAGMRRRRRLQQEDGISFEYHR YPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNM HGNEAVGRELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMPSLNPDPGFKAASQPGE LKDFVGRSNAQQIDLNRNFPDLDRIVYVNEKEGGPNNHLLKNMKKIVDQNTKLAP</p>

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

ETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGSAHEYSSSPDDAIFQSLARAY
 SSFNPAMSDPNRPPCRKNDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEIT
 VELSCEKFPPEETLKTYWEDNKNSLISYLEQIHRGVKGFVRDLQGNPIANATISVEGI
 DHDVTSAKGDYWRLIPGNYKLTASAPGYLAITKKVAVPYSPAAGVDFELESFSE
 KEEKEELMEWWKMMSETLNF

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 H₂O 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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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
Protein Refseq	NP_001864
MIM	114855
UniProt ID	P16870

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