

Recombinant Human CPE, His-tagged

Cat. No. CPE-7253H **Lot. No.** (See product label)

SPECIFICATION

| | |
|-------------------------|---|
| Product Overview | Recombinant human CPE protein, fused to His-tag at N-terminus, was expressed in E.coli. |
| Species | Human |
| Source | E.coli |
| description | CPE is a carboxypeptidase that cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. It is a peripheral membrane protein. The protein specifically binds regulated secretory pathway proteins, including prohormones, but constitutively secreted proteins. Mutations in CPE are implicated in type II diabetes. |
| source | E. coli |
| species | Human |
| tag | His |
| form | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT |
| molecular mass | 51.4 kDa (457aa) |
| aa sequence | MGSSHHHHHH SSGLVPRGSH MGSLQQEDGI SFEYHRYPEL REALVSVWLQ |

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CTAISRIYTV GRSFEGRELL VIELSDNPGV HEPGEPEFKYIGNMHGNEAV
 GRELLIFLAQ YLCNEYQKGN ETIVNLIHST RIHIMPSLNP DGFEKAASQP
 GELKDWFVGR SNAQGIDLNR NFPDLDRIVY VNEKEGGPNN HLLKNMKKIV
 DQNTKLAPET KAVIHWIMDI PFVLSANLHG GDLVANYPYD ETRSGSAHEY
 SSSPDDAIFQ SLARAYSSFPAMSDPNRPP CRKNDDDSSF VDGTTNGGAW
 YSVPGGMQDF NYLSSNCFEI TVELSCEKFP PEETLKTYWE DNKNSLISYL
 EQIHRGVKGF VRDLQGNPIA NATISVEGID HDVTSAKDGD YWROLLIPGNY
 KLTASAPGYL AITKKVAVPY SPAAGVDFEL ESFSEKKEE
 KEELMEWWKMMSETLNF

purity >85% by SDS - PAGE

applications SDS-PAGE

storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

concentration 0.5 mg/ml

GENE INFORMATION

gene name [CPE carboxypeptidase E \[Homo sapiens \]](#)

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](#)

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|----------------------------|--|
| mrna refseq | NM_001873 |
| protein refseq | NP_001864 |
| mim | 114855 |
| uniprot id | P16870 |
| chromosome location | 4q32.3 |
| pathway | Arf6 trafficking events, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem; Insulin Synthesis and Processing, organism-specific biosystem; Type I diabetes mellitus, organism-specific biosystem; Type I diabetes mellitus, conserved biosystem; |
| function | carboxypeptidase activity; cell adhesion molecule binding; metal ion binding; metallocarboxypeptidase activity; metallopeptidase activity; neurexin family protein binding; peptidase activity; zinc ion binding; |

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