

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 CRKNDDSSSF VDGTTNGGAW
 YSVPGGMQDF NYLSSNCFEI TVELSCEKFP PEETLKTYWE DNKNSLISYL
 EQIHRGVKGF VRDLQGNPIA NATISVEGID HDVTSKDG D YWRLIPGNY
 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;