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Datasheet for ABIN1880662

**CPE Protein (AA 42-453) (His tag)**

## Overview

Quantity:	50 µg
Target:	CPE
Protein Characteristics:	AA 42-453
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CPE protein is labelled with His tag.

## Product Details

Purpose:	Recombinant Human Carboxypeptidase E/CPE (C-6His)
Sequence:	RLQQEDGISF EYHRYPELRE ALVSVWLQCT AISRIYTVGR SFEGRELLVI ELSDNPGVHE PGEPEFKYIG NMHGNEAVGR ELLIFLAQYL CNEYQKGNET IVNLIHSTRI HIMPSLNPDG FEKAASQPGE LKDWVFGSRN AQGIDLNRNF PDLDRIVYVN EKEGGPNNHL LKNMKKIVDQ NTKLAPETKA VIHWIMDIPF VLSANLHGGD LVANYPYDET RSGSAHEYSS SPDDAIFQSL ARAYSSFNPA MSDPNRPPCR KNDDSSSFVD GTTNGGAWYS VPGGMQDFNY LSSNCFEITV ELSCEKFPPE ETLKTYWEDN KNSLISYLEQ IHRGVKGFVR DLQGNPIANA TISVEGIDHD VTSAKDGDYW RLLIPGNYKL TASAPGYLAI TKKVAVPYSP AAGVDFELES FSVDHHHHHH
Characteristics:	Recombinant Human Carboxypeptidase E/CPE is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Arg42-Ser453) of Human CPE fused with a polyhistidine tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.

## Product Details

Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	CPE
Alternative Name:	CPE ( <a href="#">CPE Products</a> )
Sub Type:	Fusionprotein
Background:	<p>The active form of CPE cleaves C-terminal amino acid residues of the peptide, and is thus involved in the biosynthesis of peptide hormones and neurotransmitters including insulin, enkephalin, etc. It is thought that membrane-associated CPE acts as a sorting receptor for targeting regulated secretory proteins which are mostly prohormones and neuropeptides in the trans-Golgi network of the pituitary and in secretory granules into the secretory pathway. Defects in this protein are implicated in type II diabetes due to impaired glucose clearance and insulin resistance.</p> <p>Alternative Names: Carboxypeptidase E(CPE for short), also called Carboxypeptidase H, Enkephalin convertase, Prohormone-processing carboxypeptidase, is a peripheral membrane protein and a zinc metallo carboxypeptidase which belongs to the peptidase M14 family.</p>
Molecular Weight:	47.1 kDa
UniProt:	<a href="#">P16870</a>
Pathways:	<a href="#">Peptide Hormone Metabolism</a> , <a href="#">Synaptic Membrane</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl,150 mM NaCl,1 mM ZnCl <sub>2</sub> ,10 % Glycerol, pH 7.5.

## Handling

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Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
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Storage:	-80 °C
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Storage Comment:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
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Expiry Date:	6 months
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