

# Recombinant Human Carboxypeptidase E/CPE Protein (His Tag)



Catalog Number:PKSH032173

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

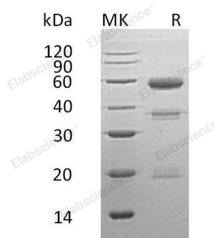
## Description

<b>Synonyms</b>	Carboxypeptidase E(CPE for short);Carboxypeptidase H;Enkephalin convertase;Prohormone-processing carboxypeptidase
<b>Species</b>	Human
<b>Expression Host</b>	HEK293 Cells
<b>Sequence</b>	Arg42-Ser453
<b>Accession</b>	P16870
<b>Calculated Molecular Weight</b>	47.2 kDa
<b>Observed molecular weight</b>	50-60 kDa
<b>Tag</b>	C-His

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < - 20°C.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Histidine-HCl, 8% Sucrose, 2% Glycine, 20% Glycerol, 0.05% Tween 80, pH 6.5.
<b>Reconstitution</b>	Not Applicable

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

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.

## For Research Use Only

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