

Recombinant Human Carboxypeptidase E/CPE Protein

Catalog No.: RP01486

Sequence Information

Species	Gene ID
Human	1363
Swiss Prot	Tags
P16870-1	C-hFc&His
Synonyms	
CPE,CPH	

Product Information

Source	Purification
HEK293 cells	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
76.92 kDa	85-100 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Carboxypeptidase E (CPE), also known as Carboxypeptidase H, is a peripheral membrane protein and a zinc metallocarboxypeptidase, and the conversion of proCPE into CPE occurs primarily in secretory vesicles. 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. The enzymatic activity is enhanced by millimolar concentrations of Co²⁺. It has also been proposed that membrane-associated carboxypeptidase E 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. Its interaction with glycosphingolipid-cholesterol rafts at the TGN facilitates the targeting. Mutations in this gene are implicated in type II diabetes due to impaired glucose clearance and insulin resistance.

Basic Information

Description

Recombinant Human Carboxypeptidase E/CPE Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Ser453) of human Carboxypeptidase E/CPE (Accession #NP_001864) fused with a Fc, 6×His tag at the C-terminus.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

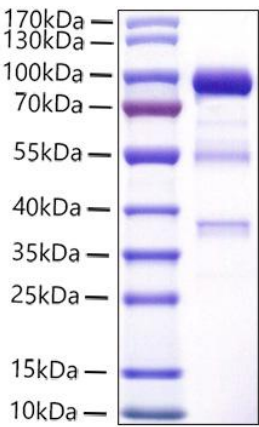
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

		400-999-6126
		cn.market@abclonal.com.cn
		www.abclonal.com.cn

Validation Data



Recombinant Human Carboxypeptidase E/CPE Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.