

## 32-7895: Recombinant Human Carboxypeptidase E/CPE (C-6His)

**Gene :** CPE  
**Gene ID :** 1363  
**Uniprot ID :** P16870

### Description

Source: Human Cells.  
MW :47.1kD.

Recombinant Human Carboxypeptidase E is produced by our Mammalian expression system and the target gene encoding Arg42-Ser453 is expressed with a 6His tag at the C-terminus. 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.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl,150mM NaCl,1mM ZnCl<sub>2</sub>,10%Glycerol,pH7.5.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** RLQQEDGISFEYHRYPELREALVSVWLQCTAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNMHGN EAVGRELLIFLAQYLCNEYQKGNETIVNLIHSTRIHIMP SLNPDGFKAASQPGE LKDFVGRSNAQGIDLNRNF PDLDRIVYVNEKEGGPNNHLLKNMKKIVDQNTKLAPETKAVIHWIMDIPVLSANLHGGDLVANYPYDETRSGS AHEYSSPDDAIFQSLARAYSSFNPAMSDPNRPPCRKNDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCF EITVELSCEKFPPEETLKTYWEDNKNLSISYLEQIHRGVKGFVRDLQGNPIANATISVEGIDHDVTSAKDGDYWR LLIIPGNYKLTASAPGYLAITKKVAVPYSPAAGVDFELESFVSDHHHHHHH

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.