

32-2206: CPE Recombinant Protein

Alternative Name : Carboxypeptidase E, Carboxypeptidase H, CPH, CPE, CPE Human, Enkephalin convertase, Prohormone-processing carboxypeptidase.

Description

Source : Escherichia Coli. CPE Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 457 amino acids (43-476 a.a.) and having a molecular mass of 51.4kDa. CPE is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Carboxypeptidase-E (CPE) is a carboxypeptidase that cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. CPE is a peripheral membrane protein. CPE specifically connects regulated secretory pathway proteins, including prohormones, but constitutively secreted proteins. Mutations in CPE are implicated in type II diabetes.

Product Info

Amount : 20 µg

Purification : Greater than 85.0% as determined by SDS-PAGE.

Content : CPE protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

Storage condition : Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSSLVPRGSH MGSLQQEDGI SFYHRYPEL REALVSVWLQ CTAISRIYTV GRSFEGRELL VIELSDNPGV HEPGEPEFKY IGNMHGNEAV GRELLIFLAQ YLCNEYQKGN ETIVNLIHST RIHIMPSLNP DGFKAASQP GELKDWVFGVGR SNAQGIDLNR NFPDLDRIVY VNEKEGGPNN HLLKNMKKIV DQNTKLAPET KAVIHWIMDI PFVLSANLHG GDLVANYPYD ETRSGSAHEY SSSPDDAIFQ SLARAYSSFN PAMSDPNRPP CRKNDDSSSF VDGTTNGGAW YSVPGGMQDF NYLSSNCFEI TVELSCEKFP PEETLKTYWE DNKNLSISYL EQIHRGVKGF VRDLQGNPIA NATISVEGID HDVTSAKDGD YWRLLIPGNY KLTASAPGYL AITKKVAVPY SPAAGVDFEL ESFSEKKEE KEELMEWWKM MSETLNF.

