

37-1204: Human Carboxypeptidase E / CPE Recombinant Protein (Fc Tag)(Discontinued)

Reactivity : Human

Alternative Name : none

Description

Source : HEK293 Cells

Carboxypeptidase E (CPE), also known as Carboxypeptidase H, is a peripheral membrane protein and a zinc metallo-carboxypeptidase, 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 Co^{2+} . 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.

Product Info

Amount : Human Carboxypeptidase E / CPE Recombinant Protein (Fc Tag)(Discontinued) / 20 μ g

Purification : > 85 % as determined by SDS-PAGE

Content : Formulation Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Storage condition : Store it under sterile conditions at $-20^{\circ}C$ to $-80^{\circ}C$. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Amino Acid : Met1-Ser453

Application Note

Endotoxin : < 1.0 EU per μ g of the protein as determined by the LAL method

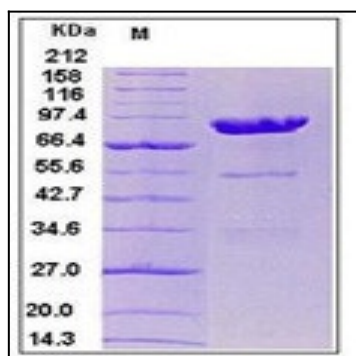


Fig 1: Human Carboxypeptidase E / CPE Recombinant Protein (Fc Tag)