
Product Data Sheet

Product Name: CPE Human
 Cat. No.: GP21462
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carboxypeptidase E; Carboxypeptidase H; CPH; CPE; CPE Human; Enkephalin convertase; Prohormone-processing carboxypeptidase.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSLQQEDGI SFEYHRYPEL REALVSVWLQ CTAISRIYTV GRSFEGRELL VIELSDNPGV HEPGEPEFKY IGMHMGNEAV GRELLIFLAQ YLCNEYQKGN ETIVNLIHST RIHIMPSLNP DGFKAASQP GELKDWVGR SNAQGIDLNR NFPDLDRIVY VNEKEGGPNN HLLKNMKKIV DQNTKLAPET KAVIHWIMDI PFVLSANLHG GDLVANYPYD ETRSGSAHEY SSSPDDAIFQ SLARAYSSFN PAMSDPNRPP CRKNDDSSSF VDGTNGGAW YSVPGGMQDF NYLSSNCFEI TVELSCEKFP PEETLKTYWE DNKNSLISYL EQIHRGVKGF VRDLQGNPIA NATISVEGID HDVTSKDG YWRLIPGNY KLTASAPGYL AITKKVAVPY SPAAGVDFEL ESFSERKEEE KEELMEWWKM MSETLNF.		
Formulation	CPE protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

Introduction

Carboxypeptidase-E (CPE) is a carboxypeptidase that cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters. 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.

Stability

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%

Caution: Product has not been fully validated for medical applications. For research use only.

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HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

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.

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