

Recombinant Mouse Carboxypeptidase E, His-tagged

Cat. No. CPE-2891M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Carboxypeptidase E(NP_038522)(Met1-Phe476), fused with C-terminal His tag, was expressed in HEK293.
Species	Mouse
Source	HEK293
ProteinLength	1-476 a.a.
Description	CarboxypeptidaseE (CPE), also known as Carboxypeptidase H or enkephalin convertase. Carboxypeptidase E cleaves C-terminal amino acid residues and is involved inneuropeptide processing. It is a peripheral membrane protein. CPEspecifically binds regulated secretory pathway proteins, includingprohormones, but not constitutively secreted proteins. Carboxypeptidase Eappears to have several functions. The active form of carboxypeptidase E wasshown to be in secretory vesicles, where it acts as an exopeptidase toactivate neuropeptides, It does that by cleaving off basic C-terminal aminoacids, producing the active form of the peptide. Products of carboxypeptidaseE include insulin, enkephalin, and most other neuroendocrine peptides.It hasalso been proposed that membrane-associated carboxypeptidase E acts as asorting signal for regulated secretory proteins in the trans-Golgi network ofthe pituitary and in secretory granules; regulated secretory proteins aremostly hormones and neuropeptides. Mice with mutant carboxypeptidase E Cpe,display endocrine disorders like obesity and infertility.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Tag	C-His
Form	Bulk protein in a 0.22 µm filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.
Purity	>95% as determined by SDS-PAGE. All lots are greater than 95% pure.
Storage	Store at -20°C in lyophilized state after receipt. For long term storage, upon reconstitution the CPE should be aliquoted and stored at -20°C or -80°C. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name	Cpe carboxypeptidase E [Mus musculus]
Official Symbol	CPE
Synonyms	CPE; carboxypeptidase E; carboxypeptidase H; enkephalin convertase; prohormone-processing carboxypeptidase; CPH; fat; Cph1; Cph-1; R74677; MGC7101;
Gene ID	12876
mRNA Refseq	NM_013494
Protein Refseq	NP_038522

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA