

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

Carboxypeptidase E (CPE), also known as Carboxypeptidase H or enkephalin convertase. Carboxypeptidase E cleaves C-terminal amino acid residues and is involved in neuropeptide processing. It is a peripheral membrane protein. CPE specifically binds regulated secretory pathway proteins, including prohormones, but not constitutively secreted proteins. Carboxypeptidase E appears to have several functions. The active form of carboxypeptidase E was shown to be in secretory vesicles, where it acts as an exopeptidase to activate neuropeptides. It does that by cleaving off basic C-terminal amino acids, producing the active form of the peptide. Products of carboxypeptidase E include insulin, enkephalin, and most other neuroendocrine peptides. It has also been proposed that membrane-associated carboxypeptidase E acts as a sorting signal for regulated secretory proteins in the trans-Golgi network of the pituitary and in secretory granules; regulated secretory proteins are mostly hormones and neuropeptides. Mice with mutant carboxypeptidase E Cpe, display endocrine disorders like obesity and infertility.

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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 mCPE should be aliquot and store 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 [<i>Mus musculus</i>]
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

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