

Recombinant Human CPE protein, His & GST-tagged

Cat. No. CPE-1438H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CPE aa. (Ile151~Gly317 (Accession # P16870) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Ile151~Gly317
Description	This gene encodes a member of the M14 family of metallopeptidases. The encoded preproprotein is proteolytically processed to generate the mature peptidase. This peripheral membrane protein cleaves C-terminal amino acid residues and is involved in the biosynthesis of peptide hormones and neurotransmitters, including insulin. This protein may also function independently of its peptidase activity, as a neurotrophic factor that promotes neuronal survival, and as a sorting receptor that binds to regulated secretory pathway proteins, including prohormones. Mutations in this gene are implicated in type 2 diabetes.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 50.8kDa.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	CPE carboxypeptidase E [Homo sapiens (human)]
Official Symbol	CPE
Synonyms	CPE; carboxypeptidase E; CPH; carboxypeptidase H; cobalt-stimulated chromaffin granule carboxypeptidase; enkephalin convertase; insulin granule-associated carboxypeptidase; prohormone-processing carboxypeptidase
Gene ID	1363
mRNA Refseq	NM_001873.3

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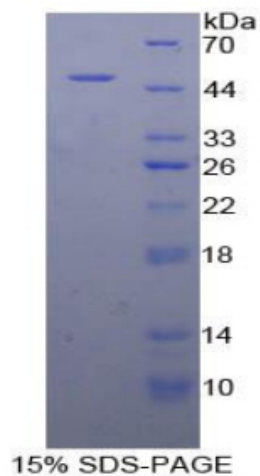
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Protein Refseq NP_001864.1

UniProt ID P16870

SDS-PAGE



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