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Product datasheet for PH308791

Carboxypeptidase H (CPE) (NM_001873) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	CPE MS Standard C13 and N15-labeled recombinant protein (NP_001864)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC208791
Predicted MW:	53.15 kDa
Protein Sequence:	>RC208791 representing NM_001873 Red=Cloning site Green=Tags(s) MAGRGGSALLALCGALAACGWLLGAEAQEPGAPAAGMRRRRRLQQEDGISFEYHRYPELREALVSVWLQC TAISRIYTVGRSFEGRELLVIELSDNPGVHEPGEPEFKYIGNMHGNEAVGRELLIFLAQYLCNEYQKGNE TIVNLIHSTRIHIMPSLNPDGFEKAASQPGELKDWFVGRSNAQGIDLNRNFPDLDRIVYVNEKEGGPNNH LLKNMKKIVDQNTKLAPETKAVIHWIMDIPFVLSANLHGGDLVANYPYDETRSGSAHEYSSSPDDAIFQS LARAYSSFNPAMSDPNRPPCRKNDDDSSFVDGTTNGGAWYSVPGGMQDFNYLSSNCFEITVELSCEKFPP EETLKTYWEDNKNSLISYLEQIHRGVKGFVRDLQGNPIANATISVEGIDHDVTSAKDGDYWRLLIPGNYK LTASAPGYLAITKKVAVPYSPAAGVDFELESFSERKEEEKEELMEWWKMMSETLNF TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001864
RefSeq Size:	2443
RefSeq ORF:	1428
Synonyms:	CPH; IDDHH

View online »

Locus ID: 1363

UniProt ID: P16870, A0A384N679

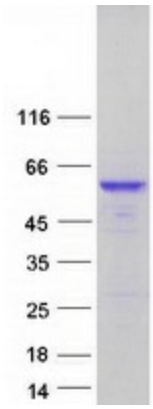
Cytogenetics: 4q32.3

Summary: This gene encodes a member of the M14 family of metallocarboxypeptidases. 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. [provided by RefSeq, Nov 2015]

Protein Families: Druggable Genome, Protease, Secreted Protein

Protein Pathways: Type I diabetes mellitus

Product images:



Coomassie blue staining of purified CPE protein (Cat# [TP308791]). The protein was produced from HEK293T cells transfected with CPE cDNA clone (Cat# [RC208791]) using MegaTran 2.0 (Cat# [TT210002]).