Recombinant Human CTSC Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CTSC-4828H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CTSC MS Standard C13 and N15-labeled recombinant protein (NP_001805) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
ProteinLength	1-463 aa
Description	This gene encodes a member of the peptidase C1 family and lysosomal cysteine proteinase that appears to be a central coordinator for activation of many serine proteinases in cells of the immune system. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate heavy and light chains that form a disulfide-linked dimer. A portion of the propeptide acts as an intramolecular chaperone for the folding and stabilization of the mature enzyme. This enzyme requires chloride ions for activity and can degrade glucagon. Defects in the encoded protein have been shown to be a cause of Papillon-Lefevre syndrome, an autosomal recessive disorder characterized by palmoplantar keratosis and periodontitis.
Molecular Mass	51.84 kDa
AA Sequence	MGAGPSLLLAALLLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLDTAYDDLGNSGHFTIIYNQGFEIVLNDYKWFAFFKYKEEGSK

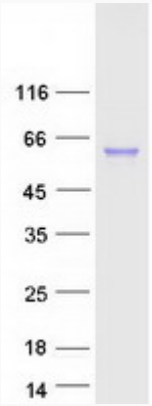
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	VTTYCNETMTGWVHDVLGRNWACFTGKKVGTASENVYVNTAHLKNSQEKYSNRLY KYDHNFVKAINAIQKSWTATTYMEYETLTLGDMIRRSGGHSRKIPRPKPAPLTAEIQQ KILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSQTPIL SPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCF RYYSSEYHYVGGFYGGCNEALMKLELVHHGPMAVAFEVYDDFLHYKKGIYHHTGLR DPFNPFELTNHAVLLVGYGTDSASGMDYWIVKNSWGTGWGENGYFRIRRGTDECA IESIAVAATPIPKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CTSC cathepsin C [Homo sapiens (human)]
Official Symbol	CTSC
Synonyms	CTSC; cathepsin C; PALS, PLS; dipeptidyl peptidase 1; DPP1; cathepsin J; dipeptidyl peptidase I; dipeptidyl transferase; dipeptidyl-peptidase I; JP; HMS; JPD; PLS; CPPI; DPPI; PALS; DPP-I;
Gene ID	1075

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mRNA Refseq	NM_001814
Protein Refseq	NP_001805
MIM	602365
UniProt ID	P53634
SDS-PAGE	

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