

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	MGAGPSLLLAALLLLLSGDGAVRC DTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLD TAYDDLGN SGHFTIYNQGF EIVLNDYKWF AFFKYKEEGSK

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VTTYCNETMTGWVHDLGRNWACFTGKKVGTASENVYVNTAHLKNSQEKYSNRLY
 KYDHNFKVAINAIQKSWTATTYMEYETLTLGDMIRRS GGHSRKIPRPKPAPLTAEIQQ
 KILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSTPIL
 SPQEVVSCSQYAQGC EGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCF
 RYYSSSEYHYVGGFYGGCNEALMKLELVHHGPMVAFAFEVYDDFLHYKKGIYHHTGLR
 DPFNPFELTNHAVLLVGYGTDSASGMDYWIVKNSWGTGWGENGYFRIRRGTDCA
 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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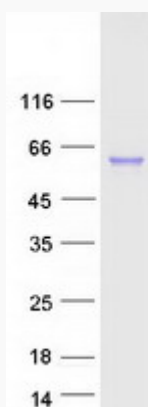
mRNA Refseq [NM_001814](#)

Protein Refseq [NP_001805](#)

MIM [602365](#)

UniProt ID [P53634](#)

SDS-PAGE



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