

Recombinant Full Length Human CTSC Protein, C-Flag-tagged

Cat. No. CTSC-1863HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CTSC Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	49.5 kDa
AA Sequence	MGAGPSLLLAALLLLLSGDGAVRC DTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQK LDTAYDDLGN SGHFTIYNQGFEIVLNDYKWFAFFKYKEEGS KVTTCNETMTGWVHDVLGRNWACFTGK KVGTA SENVYVNTAHLKNSQEKYSNR

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LYKYDHNFVKAINAIQKSWTATTYMEYETLTLGDMIRRS GGHSR KIPRPKPAPLTAEI
 QQKILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNST
 PILSPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKED
 CFRYYSSSEYHYVGG FYGGCNEALMKLELVHHGPMMAFAFEVYDDFLHYKKGIYHHT
 GLRDPFNPFEELTNHAVLLVGYGTDSASGM DYWIVKNSWGTGWGENGYFRIRRG
 TDECAIESIAVAATPIPKL TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Protease
Protein Pathways	Lysosome
Full Length	Full L.

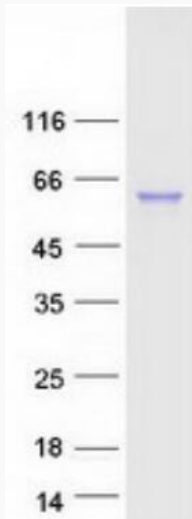
GENE INFORMATION

Gene Name	CTSC cathepsin C [Homo sapiens (human)]
Official Symbol	CTSC

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Synonyms	JP; HMS; JPD; PLS; CPPI; DPP1; DPPI; PALS; DPP-I; PDON1
Gene ID	1075
mRNA Refseq	NM_001814.6
Protein Refseq	NP_001805.4
MIM	602365
UniProt ID	P53634
 Coomassie blue staining of purified CTSC protein.	