

Recombinant Full Length Human CTSC Protein, GST-tagged

Cat. No. CTSC-2333HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CTSC full-length ORF (NP_001805.1, 1 a.a. - 463 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	463 amino acids
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. [provided by RefSeq, Nov 2015]
Molecular Mass	78.2 kDa
AA Sequence	MGAGPSLLLAALLLLLSGDGAVRCCTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLDYDDLGNNSGHFTIYNQGFIVLNDYKWFAPFFKYKEEGSK VTTYCNETMTGWVHVDVLGRNWACFTGKKVGTASENVYVNTAHLKNSQEKYSNRLY

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KYDHNFVKAINAIQKSWTATTYMEYETLTLGDMIRRSGGHSRKIPRPKPAPLTAEIQQ
 KILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSTPIL
 SPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCF
 RYYSSSEYHYVGGFYGGCNEALMKLELVHHGPMMAVAFEVYDDFLHYKKGIYHHTGLR
 DPFNPFELTNHAVLLVGYGTDASGMDYWIVKNSWGTGWGENGYFRIRRGTDCA
 IESIAVAATPIPKL

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CTSC cathepsin C [Homo sapiens]

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

mRNA Refseq

NM_001114173

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Protein Refseq	NP_001107645
MIM	602365
UniProt ID	P53634

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