

Recombinant Full Length Human CTSC Protein, GST-tagged

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

SPECIFICATION

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| 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 | MGAGPSLLLAALLLLLSGDGAVRCDTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLDYDDLGNSTGHFTIYNQGFVILNDYKWFVAFKKYKEEGSK VTTYCNETMTGWVHVDVLRNWACFTGKKVGTASENVYVNTAHLKNSQEKYSNRLY |

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KYDHNFKVAINAIQKSWTATTYMEYETLTLGDMIRRSGGHSRKIPRPKPAPLTAEIQQ
 KILHLPTSWDWRNVHGINFVSPVRNQASCSCYFASMGMLEARIRILTNNNSQTPIL
 SPQEVVSCSQYAQQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCF
 RYYSSEYHYVGGFYGGCNEALMKLELVHHGPMVAFAFEVYDDDFLHYKKGIIYHHTGLR
 DPFNPFELTNHAVLLVGYGTDSASGMDYWIVKNSWGTGWGENGYFRIRRGTDDECA
 IESIAVAATPIPKL

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| 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

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|------------------------|--|
| 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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