

Recombinant Human CTSC Protein, GST-tagged

Cat. No. CTSC-2102H **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	Wheat Germ
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. [provided by RefSeq, Nov 2015]
Molecular Mass	78.2 kDa
AA Sequence	MGAGPSLLLAALLLLLSGDGAVRC DTPANCTYLDLLGTWVFQVGSSGSQRDVNCSV MGPQEKKVVVYLQKLD TAYDDLGN SGHFTI IYNQGFEIVLNDYKWF AFFKYKEEGSK VTTYCNETMTGWVHDV LGRNWACFTGKKVGTASENVYVNTAHLKNSQEKYSNRLY

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KYDHNFVKAINAIQKSWTATTYMEYETLTLGDMIRRSGGHSRKIPRPKPAPLTAEIQQ
 KILHLPTSWDWRNVHGINFVSPVRNQASCGSCYSFASMGMLEARIRILTNNSTPIL
 SPQEVVSCSQYAQGCEGGFPYLIAGKYAQDFGLVEEACFPYTGTDSPCKMKEDCF
 RYYSSSEYHYVGGFYGGCNEALMKLELVHHGPMMAVAFEVYDDFLHYKKGIYHHTGLR
 DPFNPFELTNHAVLLVGYGTDASGMDYWIVKNSWGTGWGENGYFRIRRGTDDECA
 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

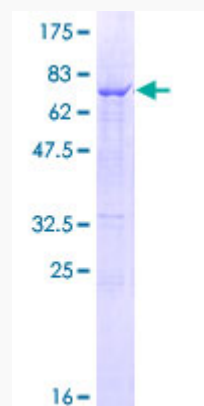
 45-1 Ramsey Road, Shirley, NY 11967, USA

Protein Refseq NP_001107645

MIM 602365

UniProt ID P53634

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA