

## Cathepsin C (CTSC) Recombinant Protein | CTSC recombinant protein

Recombinant Cathepsin C (CTSC)

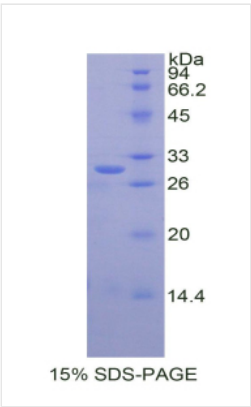
|                               |                       |                                           |                                               |
|-------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA134413</b> | HOST<br><b>E.coli</b> | REACTIVITY<br><b>Homo sapiens (Human)</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|

### PRODUCT SYNONYMS

Cathepsin C (CTSC); Recombinant Cathepsin C (CTSC); CTSC recombinant protein

### PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactivity                                           | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Purity/Purification                                  | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                          | 20mM Tris, 150mM NaCl, pH8.0, containing 0.01% SKL, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration                                        | Original Concentration: 400ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Sequence                                             | LPTSWDWRNV HGINFVSPVR NQASCGSCYS FASMGMLEAR IRILTNNST PILSPQEVVS CSQYAQGCEG<br>GFPYLIAGKY AQDFGLVEEA CFPYTGTDSP CKMKEDCFRY YSSEYHYVGG FYGGCNEALM KLELVHHGPM<br>AVAFEVYDDF LHYKKGIIHH TGLRDPFNPF ELTNHAVLLV GYGTSASGM DYWIVKNSWG TGWGENGYFR<br>IRRGTDECAI ESIIVAATPI PKL                                                                                                                                                                                                                                                                  |
| Applicable Applications for CTSC recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source                                               | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Residues                                             | Leu231~Leu463                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Tags                                                 | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Subcellular Location                                 | Lysosome                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Traits                                               | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Predicted isoelectric point                          | 5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Usage                                                | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Preparation and Storage                              | <p><b>Storage:</b><br/>Avoid repeated freeze/thaw cycles.<br/>Store at 2-8 degree C for one month.<br/>Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b><br/>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p> |



SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                      |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 167000671                                                                                                            |
| NCBI GeneID                      | 1075                                                                                                                 |
| NCBI Accession #                 | NP_001107645.1                                                                                                       |
| NCBI GenBank Nucleotide #        | NM_001114173.1                                                                                                       |
| UniProt Accession #              | P53634; Q2HIY8; Q53G93; Q71E75; Q71E76; Q7M4N9; Q7Z3G7; Q7Z5U7; Q8WY99; Q8WYA7; A8K7V2; B5MDD5                       |
| Molecular Weight                 | Predicted Molecular Mass: 27.3 kDa<br>Accurate Molecular Mass: 27 kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | dipeptidyl peptidase 1 isoform c                                                                                     |
| NCBI Official Synonym Full Names | cathepsin C                                                                                                          |
| NCBI Official Symbol             | CTSC                                                                                                                 |
| NCBI Official Synonym Symbols    | JP; HMS; JPD; PLS; CPPI; DPP1; DPPI; PALS; DPP-I; PDON1                                                              |
| NCBI Protein Information         | dipeptidyl peptidase 1; cathepsin J; dipeptidyl peptidase I; dipeptidyl transferase; dipeptidyl-peptidase I          |
| UniProt Protein Name             | Dipeptidyl peptidase 1                                                                                               |
| UniProt Gene Name                | CTSC                                                                                                                 |
| UniProt Synonym Gene Names       | CPPI; DPP-I; DPPI                                                                                                    |
| UniProt Entry Name               | CATC_HUMAN                                                                                                           |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.