

## Calreticulin (CRT) Recombinant Protein | CRT recombinant protein

Recombinant Calreticulin (CRT)

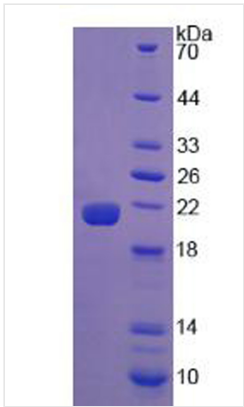
|                              |                       |                                           |                                               |
|------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA20200</b> | HOST<br><b>E.coli</b> | REACTIVITY<br><b>Homo sapiens (Human)</b> | APPLICATIONS<br><b>SDS-Page, Western Blot</b> |
|------------------------------|-----------------------|-------------------------------------------|-----------------------------------------------|

### PRODUCT SYNONYMS

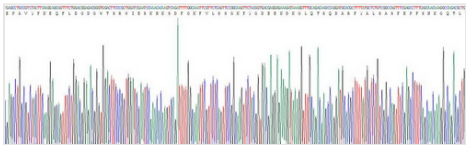
Calreticulin (CRT); Recombinant Calreticulin (CRT); CRT recombinant protein

### PRODUCT SPECIFICATIONS

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Reactivity                                          | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                                 | > 97%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Form/Format                                         | PBS, pH7.4, containing 0.05% SKL, 1mM DTT, 5% Trehalose and Proclin300                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Concentration                                       | Original Concentration: 200ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Sequence                                            | EPAYFKEQF LDGDGWTSRW IESKHKSDFG KVLSSGKFY GDEEKDKGLQ TSQDARFYAL SASFEPFSNK<br>GQTLVVQFTV KHEQNIDCGG GYVKLFPSNL DQTMHGDSE YNIMFGPDIC GPGTKKVHVI FNYKGKNVLI<br>NKDIRCKDDE FTHLYTLIVR PDNTYEVKID NSQVES                                                                                                                                                                                                                                                                                                                          |
| Applicable Applications for CRT recombinant protein | Positive Control, Immunogen, SDS-PAGE, WB (Western Blot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Application Notes                                   | (May be suitable for use in other assays to be determined by the end user.)                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Source                                              | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Residues                                            | Glu18~Ser193                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Tags                                                | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Subcellular Location                                | Secreted, Cytoplasm, Endoplasmic reticulum lumen, Extracellular matrix                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Traits                                              | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Predicted isoelectric point                         | 5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Usage                                               | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Preparation and Storage                             | <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.<br><br><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. |



Gene Sequencing (Extract)



SDS-PAGE

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                             |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 4757900                                                                                                                                                                                                     |
| NCBI GeneID                      | 811                                                                                                                                                                                                         |
| NCBI Accession #                 | NP_004334.1                                                                                                                                                                                                 |
| NCBI GenBank Nucleotide #        | NM_004343.3                                                                                                                                                                                                 |
| UniProt Accession #              | P27797; Q6IAT4; Q9UDG2                                                                                                                                                                                      |
| Molecular Weight                 | Predicted Molecular Mass: 21.3kDa<br>Accurate Molecular Mass: 21kDa as determined by SDS-PAGE reducing conditions.                                                                                          |
| NCBI Official Full Name          | calreticulin                                                                                                                                                                                                |
| NCBI Official Synonym Full Names | calreticulin                                                                                                                                                                                                |
| NCBI Official Symbol             | CALR                                                                                                                                                                                                        |
| NCBI Official Synonym Symbols    | RO; CRT; SSA; cC1qR; HEL-S-99n                                                                                                                                                                              |
| NCBI Protein Information         | calreticulin; CRP55; ERp60; HACBP; grp60; calregulin; endoplasmic reticulum resident protein 60; epididymis secretory sperm binding protein Li 99n; Sicca syndrome antigen A (autoantigen Ro; calreticulin) |
| UniProt Protein Name             | Calreticulin                                                                                                                                                                                                |
| UniProt Gene Name                | CALR                                                                                                                                                                                                        |
| UniProt Synonym Gene Names       | CRTC; ERp60                                                                                                                                                                                                 |
| UniProt Entry Name               | CALR_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.