

# Calreticulin (Calr) Recombinant Protein | Calr recombinant protein

Recombinant Mouse Calreticulin (Calr)

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| CATALOG #<br><b>AAA18456</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
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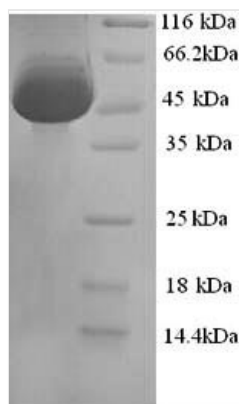
## PRODUCT SYNONYMS

Calreticulin (Calr); Recombinant Mouse Calreticulin (Calr); CRP55; Calregulin; Endoplasmic reticulum resident protein 60; ERp60; HACBP; Calr recombinant protein

## PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                           |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                                                                                                    |
| Sequence Positions      | 18-416aa; Full Length of Mature Protein                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Sequence                | DPAIYFKEQF LDGDAWTNRW VESKHKSDFG KVLSSGKFY GDLEKDKGLQ TSQDARFYAL SAKFEPFSNK<br>GQTLVVQFTV KHEQNIDCGG GYVKLFPSGL DQKDMHGDSE YNIMFGPDIC GPGTKKVHVI FNYKGKNNLI<br>NKDIRCKDDE FTHLYTLIVR PDNTYEVKID NSQVESGSLE DDWDFLPPKK IKDPDAAKPE DWDERAKIDD<br>PTDSKPEDWD KPEHIPDPDA KKPEDWDEEM DGEWEPPVIQ NPEYKGEWKP RQIDNPDYKG TWIHPEIDNP<br>EYSPDANIYA YDSFAVLGLD LWQVKSGTIF DNFLITNDEA YAEFGNETW GVTKAAEKQM KDKQDEEQRL<br>KEEEEDKKRK EEEEEADKED DDDRDEDEDE EDEKEEDEEE SPGQAKDEL |
| Preparation and Storage | Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.                                                                                                                                                                                                                                                                                                                                                                              |

## IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| Related Product Information for Calr recombinant protein | Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis. |
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|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | <p>Multiple zones in the sequence of calreticulin (CRP55, calregulin, HACBP) , a major calcium binding ER/SR protein.Smith M.J., Koch G.L.E.EMBO J. 8:3581-3586(1989) Determination of the sequence of an expressible cDNA clone encoding ERp60/calregulin by the use of a novel nested set method.Mazzarella R.A., Gold P., Cunningham M., Green M.Gene 120:217-225(1992) Separation and sequencing of familiar and novel murine proteins using preparative two-dimensional gel electrophoresis.Merrick B.A., Patterson R.M., Wichter L.L., He C., Selkirk J.K.Electrophoresis 15:735-745(1994) Lubec G., Kang S.U., Sunyer B., Chen W.-Q.Submitted (JAN-2009) to UniProtKB The calcium-binding protein calreticulin is a major constituent of lytic granules in cytolytic T lymphocytes.Dupuis M., Schaerer E., Krause K.-H., Tschopp J.J. Exp. Med. 177:1-7(1993) Age-specific CUGBP1-eIF2 complex increases translation of CCAAT/enhancer-binding protein beta in old liver.Timchenko L.T., Salisbury E., Wang G.-L., Nguyen H., Albrecht J.H., Hershey J.W., Timchenko N.A.J. Biol. Chem. 281:32806-32819(2006) Structural basis of cyclophilin B binding by the calnexin/calreticulin P-domain.Kozlov G., Bastos-Aristizabal S., Maattanen P., Rosenauer A., Zheng F., Killikelly A., Trempe J.F., Thomas D.Y., Gehring K.J. Biol. Chem. 285:35551-35557(2010) A mouse protein that localizes to acrosome and sperm tail is regulated by Y-chromosome.Bhattacharya R., Devi M.S., Dhople V.M., Jesudasan R.A.BMC Cell Biol. 14:50-50(2013) SIRT5-mediated lysine desuccinylation impacts diverse metabolic pathways.Park J., Chen Y., Tishkoff D.X., Peng C., Tan M., Dai L., Xie Z., Zhang Y., Zwaans B.M., Skinner M.E., Lombard D.B., Zhao Y.Mol. Cell 50:919-930(2013) Structural basis of carbohydrate recognition by calreticulin.Kozlov G., Pocanschi C.L., Rosenauer A., Bastos-Aristizabal S., Gorelik A., Williams D.B., Gehring K.J. Biol. Chem. 285:38612-38620(2010) Structural and functional relationships between the lectin and arm domains of calreticulin.Pocanschi C.L., Kozlov G., Brockmeier U., Brockmeier A., Williams D.B., Gehring K.J. Biol. Chem. 286:27266-27277(2011)</p> |
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## NCBI AND UNIPROT INFORMATION

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|----------------------------------|-----------------|
| NCBI GI #                        | 6680836         |
| NCBI GeneID                      | 12317           |
| NCBI Accession #                 | NP_031617.1     |
| NCBI GenBank Nucleotide #        | NM_007591.3     |
| UniProt Accession #              | P14211; Q3TVD2  |
| Molecular Weight                 | 48.3 kDa        |
| NCBI Official Full Name          | calreticulin    |
| NCBI Official Synonym Full Names | calreticulin    |
| NCBI Official Symbol             | Calr            |
| NCBI Official Synonym Symbols    | CRT; Calregulin |
| NCBI Protein Information         | calreticulin    |
| UniProt Protein Name             | Calreticulin    |
| UniProt Gene Name                | Calr            |
| UniProt Synonym Gene Names       | ERp60           |
| UniProt Entry Name               | CALR_MOUSE      |

**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.

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Online datasheet: <https://www.aaabiotech.com/calr-recombinant-protein-e-coli/18456>