

# Recombinant Human Calreticulin, 18-417 aa, His-tagged

**Cat. No.** CALR-2368H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human Calreticulin protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. 48.7 kDa (421aa).                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>              | Calreticulin is the major calcium binding protein found in smooth muscle sarcoplasmic reticulum (SR) and non-muscle endoplasmic reticulum (ER) membranes. Calreticulin can inhibit the binding of androgen receptor to its hormone-responsive DNA element and can inhibit androgen receptor and retinoic acid receptor transcriptional activities in vivo, as well as retinoic acid-induced neuronal differentiation. Thus, Calreticulin can act as an important modulator of the regulation of gene transcription by nuclear hormone receptors. |
| <b>Form</b>                     | Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>                   | > 85% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MEPAVYFKEQ FLDGDGWTSR WIESKHKSDFGK FVLSSGKF YGDEEKDKGL QTSQDARFYA LSASFEPFSN KGQTLVVQFT                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

VKHEQNIDCG GGYVKLFPNS LDQTDMHGDS EYNIMFGPDI CGPGTKKVHV  
 IFNYKGKNVL INKDIRCKDD EFTHLYTLIVRPDNTYEVKI DNSQVESGSL  
 EDDWDFLPPK KIKDPDASKP EDWDERAKID DPTDSKPEDW DKPEHIPDPD  
 AKKPEDWDEE MDGEWEPPVI QNPEYKGEWK PRQIDNPDYK GTWIHPEIDN  
 PEYSPDPSIY AYDNFGVLGL DLWQVKSGTI FDNFLITNDE AYAEFGNET  
 WGVTKAAEKQ MKDKQDEEQR LKEEEEEDKKR KEEEEEADKE DDEDKDEDEE  
 DEEDKEEDEE EDVPGQAKDE L.

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**
**Gene Name**

CALR calreticulin [ Homo sapiens ]

**Synonyms**

CALR; calreticulin; RO; CRT; SSA; cC1qR; FLJ26680; Sicca syndrome antigen A (autoantigen Ro; calreticulin); autoantigen Ro; Calreticulin; CRP55; HACBP; ERp60; grp60

**Gene ID**

811

**mRNA Refseq**

NM\_004343

**Protein Refseq**

NP\_004334

**MIM**

109091

**UniProt ID**

P27797

**Chromosome  
Location**

19p13.3-p13.2

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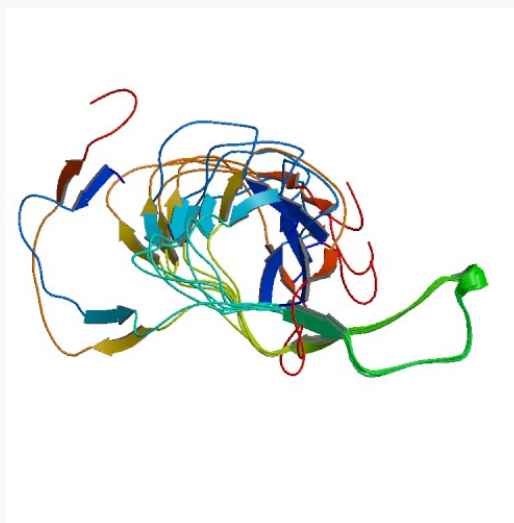
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**Pathway** Antigen processing and presentation

**Function**

DNA binding; androgen receptor binding; calcium ion binding; chaperone binding; complement component C1q binding; integrin binding; mRNA binding; sugar binding; transcription repressor activity; unfolded protein binding; zinc ion binding

**PDB rendering based on 1hhn.**



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