

# Recombinant human Calreticulin protein

Catalog Number: ATGP0542

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

18-417aa

### UniProt No.

P27797

### NCBI Accession No.

NP\_004334.1

### Alternative Names

cC1qR, CRT, FLJ26680, RO, SSA, Autoantigen RO, CALR, CALR protein, Calregulin, Calreticulin, CRP55, CRTc, ERp60, FLJ26680, grp60, HACBP, Sicca syndrome antigen A.

## PRODUCT SPECIFICATION

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### Molecular Weight

48.7 kDa (421aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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. Recombinant human

# Recombinant human Calreticulin protein

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Calreticulin protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

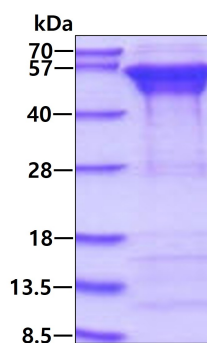
<MGSSHHHHHH SSGLVPRGSH M>EPAVYFKEQ FLDGDGWTSR WIESKHKSDF GKFVLSSGKF YGDEEKDKGL  
QTSQDARFYA LSASFEPFSN KGQTLVVQFT VKHEQNIDCG GGYVKLFPNS LDQTMHGDS EYNIMFGPDI CGPGTKKVHV  
IFNYKGNL INKDIRCKDD EFTHLYTLIV RPDNTYEVKI DNSQVESGSL EDDWDFLPPK KIKDPDASKP EDWDERAKID  
DPTDSKPEDW DKPEHIPDPD AKKPEDWDEE MDGEWEPPVI QNPEYKGEWK PRQIDNPDYK GTWIHPEIDN PEYSPDSIY  
AYDNFVGLGL DLWQVKSGTI FDNFLITNDE AYAEFGNET WGVTKAAEKQ MKDKQDEEQR LKEEEEDKKR KEEEEEADKE  
DDEDKDEDEE DEEDKEEDEE EDVPGQAKDE L

## General References

Kropp LE., et al. (2010) J Immunol. 184(10):5619-27.  
Singh P., et al. (2010) J Biochem. 147(5):625-32.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.