

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

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
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.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 0.1M NaCl, 10% glycerol.
Purity	> 85% by SDS - PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MEPAVYFKEQ FLDGDGWTSR WIESKHKSDFGK FVLSSGKF YGDEEKDKGL QTSQDARFYA LSASFEPFSN KGQTLVVQFT

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VKHEQNIDCG GGYVKLFPNS LDQTDMHGDS EYNIMFGPDI CGPGTKKVHV
 IFNYKGKNVL INKDIRCKDD EFTHLYTLIVRPDNTYEVKI DNSQVESGSL
 EDDWDFLPPK KIKDPDASKP EDWDERAKID DPTDSKPEDW DKPEHIPDPD
 AKKPEDWDEE MDGEWEPPVI QNPEYKGEWK PRQIDNPDYK GTWIHPEIDN
 PEYSPDPSIY AYDNFGVLGL DLWQVKSGTI FDNFLITNDE AYAEFEFGNET
 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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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 1hnn.	