

Calreticulin Recombinant Protein | CALR recombinant protein

Recombinant Human Calreticulin

CATALOG #
AAA38792

PRODUCT SYNONYMS

Calreticulin; Recombinant Human Calreticulin; cC1qR; CRT; FLJ26680; RO; SSA; CRP55; ERp60; CRTC; CALR; CALR recombinant protein

PRODUCT SPECIFICATIONS

Purity/Purification	Greater than 85% as determined by SDS-PAGE.
Form/Format	1mg/ml solution containing 20mM Tris-HCl pH-8, 1mM DTT, 0.1M NaCl and 10% glycerol. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMEP AVYFKEQFLD GDGWTSRWIE SKHKSDFGKF VLSSGKFYGD EEKDKGLQTS QDARFYALSA SFEPFSNKGQ TLVVQFTVKH EQNIDCGGGY VKLFPNSLDQ TDMHGDSEYN IMFGPDICGP GTKKVHVIFN YKGKNVLINK DIRCKDDEFT HLYTLIVRPD NTYEVKIDNS QVESGSLEDD WDFLPPKKIK DPDASKPEDW DERAKIDDPT DSKPEDWDKP EHDPDAKK PEDWDEEMDG EWEPPIQNP EYKGEWKPRQ IDNPDYKGTW IHPEIDNPEY SPDPSIYAYD NFGVLGLDLW QVKSQTIFDN FLITNDEAYA EEFGNETWGV TKAAEQMKD KQDEEQRLKE EEEDKKRKEE EEAEDKEDDE DKDEDEEEDV PGQAKDEL
Sequence Length	417
Source	E Coli
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CALR recombinant protein	Description: CALR Human Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 421 amino acids (18-417 a.a.) and having a molecular mass of 48.7 kDa. CALR protein is fused to a 20 amino acid His-Tag at N-terminus and purified by standard chromatography. Introduction: CALR is a multifunctional protein that acts as a main Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. Calreticulin is localized in the nucleus, and participates in transcription regulation. Calreticulin binds to the synthetic peptide KLGFCKR, which is nearly identical to an amino acid sequence in the DNA-binding domain of the superfamily of nuclear receptors. CALR binds to antibodies in specific sera of systemic lupus and Sjogren patients which have anti-Ro/SSA antibodies, it is well conserved among species, and it is positioned in the endoplasmic and sarcoplasmic reticulum where it binds calcium. The amino terminus of CALR interacts with the DNA-binding domain of the glucocorticoid receptor and prevents the receptor from binding to its specific glucocorticoid response element. CALR reduces the binding of androgen receptor to its hormone-responsive DNA element and inhibits androgen receptor and retinoic acid receptor transcriptional activities in vivo, as well as retinoic acid-induced neuronal differentiation. Therefore, CALR acts as a significant modulator of the regulation of gene transcription by nuclear hormone receptors.
Product Categories/Family for CALR recombinant protein	Recombinant & Natural Proteins; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4757900
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NCBI GeneID	811
NCBI Accession #	NP_004334.1
NCBI GenBank Nucleotide #	NM_004343.3
UniProt Accession #	P27797; Q6IAT4; Q9UDG2
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; Sicca syndrome antigen A (autoantigen Ro; calreticulin); calregulin; endoplasmic reticulum resident protein 60; epididymis secretory sperm binding protein Li 99n; grp60
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.

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Online datasheet: <https://stage.aaabiotech.com/calr-recombinant-protein/38792>