Recombinant human Calreticulin protein

Catalog Number: ATGP0542

PRODUCT INFORMATION

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

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

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

Catalog Number: ATGP0542

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

Amino acid Sequence

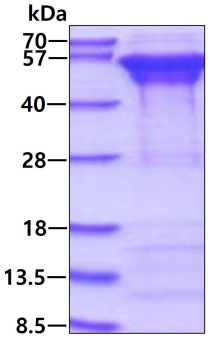
<MGSSHHHHHH SSGLVPRGSH M>EPAVYFKEQ FLDGDGWTSR WIESKHKSDF GKFVLSSGKF YGDEEKDKGL QTSQDARFYA LSASFEPFSN KGQTLVVQFT VKHEQNIDCG GGYVKLFPNS LDQTDMHGDS EYNIMFGPDI CGPGTKKVHV IFNYKGKNVL INKDIRCKDD EFTHLYTLIV RPDNTYEVKI DNSQVESGSL EDDWDFLPPK KIKDPDASKP EDWDERAKID DPTDSKPEDW DKPEHIPDPD AKKPEDWDEE MDGEWEPPVI QNPEYKGEWK PRQIDNPDYK GTWIHPEIDN PEYSPDPSIY AYDNFGVLGL DLWQVKSGTI FDNFLITNDE AYAEEFGNET WGVTKAAEKQ MKDKQDEEQR LKEEEEDKKR KEEEEAEDKE 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.