

Product datasheet for **AR09452PU-N**

Calreticulin (18-417, His-tag) Human Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Calreticulin (18-417, His-tag) human recombinant protein, 0.1 mg |
| Species: | Human |
| Expression Host: | E. coli |
| Expression cDNA Clone or AA Sequence: | <u>MGSSHHHHHH SSGLVPRGSH</u> MEPAVYFKEQ FLDGDGWTSR WIESKHKSDF GKFVLSSGKF YGDEEKDKGL QTSQDARFYA LSASFEPFSN KGQTLVVQFT VKHEQNIDCG GGYVKLFPNS LDQTDMMHGDSEYNIMFGPDI CGPGTKKVHV IFNYKGKNVL INKDIRCKDD EFTHLYTLIV RPDNTYEVKI DNSQVESGSL EDDWDFLPPK KIKDPDASKP EDWDERAKID DPTDSKPEDW DKPEHIPDPD AKKPEDWDEE MDGEWEPPVI QNPEYKGEWK PRQIDNPDYK GTWIHPEIDN PEYSPDPSIY AYDNFGVLGL DLWQVKSGTI FDNFLITNDE AYAEFFGNET WGVTKAAEKQ MKDKQDEEQR LKEEEEDKKR KEEEEEADKE DDEDKDEDEE DEEDKEEDEE EDVPGQAKDE L |
| Tag: | His-tag |
| Predicted MW: | 48.7 kDa |
| Concentration: | lot specific |
| Purity: | >85% by SDS - PAGE |
| Buffer: | Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT, 0.1 M NaCl, 10% glycerol |
| Preparation: | Liquid purified protein |
| Protein Description: | Recombinant human Calreticulin protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. |
| Storage: | Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| RefSeq: | <u>NP_004334</u> |
| Locus ID: | 811 |
| UniProt ID: | <u>P27797</u> |
| Cytogenetics: | 19p13.13 |


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Synonyms: CRP55, Calregulin, HACBP, ERp60, grp60, CALR, CRTC

Summary: Calreticulin is a highly conserved chaperone protein which resides primarily in the endoplasmic reticulum, and is involved in a variety of cellular processes, among them, cell adhesion. Additionally, it functions in protein folding quality control and calcium homeostasis. Calreticulin is also found in the nucleus, suggesting that it may have a role in transcription regulation. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin. Recurrent mutations in calreticulin have been linked to various neoplasms, including the myeloproliferative type.[provided by RefSeq, May 2020]

Protein Families: Druggable Genome, Secreted Protein, Transcription Factors

Protein Pathways: Antigen processing and presentation

Product images:

