

HUMAN CALR PROTEIN, HIS TAG

Cat.#: 11669

Product Name: Human CALR Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: cClqR;CRT;HEL-S-99n;RO;SSA

Target: CALR

UNIPROT ID: P27797

Description: Recombinant human CALR protein with C-terminal 6xHis tag

Background: 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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 47.3 kDa after removal of the signal peptide. The apparent molecular mass of CALR-His is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: CALR(Glu18-Leu417) 6xHis tag

Purity: The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

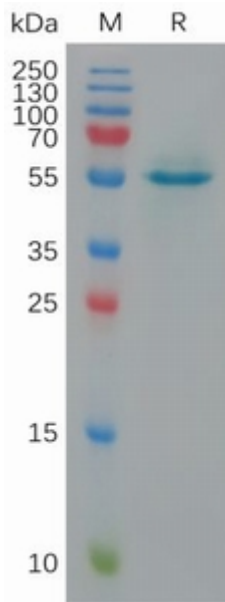


Figure 1. Human CALR Protein, His Tag on SDS-PAGE under reducing condition.