

Calreticulin Protein, Cricetulus griseus, Recombinant (His)

General Information

Synonyms:	HACBP;CRP55;Calregulin;Calreticulin;CRT;CALR;Endoplasmic reticulum resident protein 60 (ERp60)
Protein Construction:	18-417 aa
Species:	Chinese hamster
Expression Host:	P. pastoris (Yeast)
Accession:	Q8K3H7
Molecular Weight:	48.1 kDa (predicted)
AA Sequence:	EPAVYFKEQFLDGGDWTNRWVESKHKSDFGKFLVSSGKFGYGDQEKDKGLQTSQDARFYALSARFEPFSNKG QTLVVQFTVKHEQNIDCGGGYVKLFPGLDQKDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDI RCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDAAKPEDWDERAKIDDPTDSKPE DWDKPEHIPDPDAKKPEDWDEEMDGEWEPPIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDANI YAYDSFAVLGLDLWQVKSQTIFDNFLITNDEAYAEFEFGNETWGVTKASEKQMKDKQDEEQRLKEEEDKRRK EEEEAEKEDDDRDEDEEDEDKEEDEDTPGQTKDEL

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Calcium-binding chaperone that promotes folding, oligomeric assembly and quality control in the endoplasmic reticulum (ER) via the calreticulin/calnexin cycle. This lectin interacts transiently with almost all of the monoglucosylated glycoproteins that are synthesized in the ER. Interacts with the DNA-binding domain of NR3C1 and mediates its nuclear export. Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis. Present in the cortical granules of non-activated oocytes, is exocytosed during the cortical reaction in response to oocyte activation and might participate in the block to polyspermy.

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