

Calreticulin Protein, Pig, Recombinant (His)

General Information

Synonyms:	Calregulin;HACBP;Endoplasmic reticulum resident protein 60 (ERp60);CRP55;Calreticulin; CALR
Protein Construction:	18-417 aa
Species:	Sus scrofa (Pig)
Expression Host:	P. pastoris (Yeast)
Accession:	P28491
Molecular Weight:	48.6 kDa (predicted)
AA Sequence:	EPTIYFKEQFLDGDGWTDRWIESKHKPDFGRFVLSSGKFYGDQEKDKGLQTSQDARFYALSARFEPFSNKGQ TLVVQFTVKHEQNIDCGGGYVKLFPDGLDQTDMHGDSEYNIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIR CKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKDPDAVKPEDWDERAKIDDPTDSKPED WDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPEYSPDSNIY AYENFAVLGLDLWQVKSGTIFDNFLITNDEAYAEFGNETWGVTKAAEKQMKDKQDEEQRLKEEEEEKKRKE EEEVDKEDEEDKDEDEEEDEKEEEEEEDAAAGQAKDEL

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:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

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

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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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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