

Recombinant Pig CALR Protein (18-417 aa), His-tagged

Cat. No. CALR-2130P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig CALR Protein (18-417 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Tags & Cell Markers. Protein Description: Full Length of Mature Protein.
Species	Pig
Source	Yeast
ProteinLength	18-417 aa
Description	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 (By similarity). Involved in maternal gene expression regulation. May participate in oocyte maturation via the regulation of calcium homeostasis.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	48.6 kDa
AA Sequence	EPTIYFKEQFLDGDGWTDRWIESKHKPDFGRFVLSSGKFYGDQEKDKGLQTSQDA RFYALSARFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPDGLDQTDMHGDSEY NIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKID

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NSQVESGSLEDDWDFLPPKKIKDPDAVKPEDWDERAKIDDPTDSKPEDWDKPEHIP
 DPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPE
 YSPDSNIYAYENFAVLGLDLWQVKSGETFDNFLTND EAYAE EFGNETWGVTKAAEK
 QMKDKQDEEQRLKEEEEEKKRKEEEEVDKED EEDKDEDEEE EDEKEEEEEEDAAA
 GQAKDEL

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with reconstitution instruction is sent along with the products.

GENE INFORMATION

Gene Name CALR calreticulin [*Sus scrofa*]

Official Symbol CALR

Synonyms CALR; calreticulin;

Gene ID 100381266

mRNA Refseq NM_001174133

Protein Refseq NP_001167604

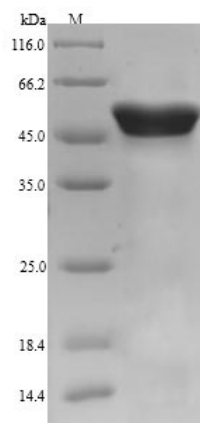
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UniProt ID

P28491



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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