

Recombinant Mouse CALR Protein (18-416 aa), GST-tagged

Cat. No. CALR-377M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse CALR Protein (18-416 aa) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Mouse
Source	E.coli
ProteinLength	18-416 aa
Description	Calcium-binding chaperone that promotes folding, oligomeric assbly 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 .
Form	Tris-based buffer, 50% glycerol
Molecular Mass	73.3 kDa
AA Sequence	DPAIYFKEQFLDGDWNTNRWVESKHKSDFGKFVLSSGKFYGDLEKDKGLQTSQDA RFYALSAKFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPSGLDQKDMHGDSEY NIMFGPDICGPGTKKVHVIFNYKGKNVLINKDIRCKDDEFTHLYTLIVRPDNTYEVKID NSQVESGSLEDDWDFLPPKKIKDPDAAKPEDWDERAKIDDPTDSKPEDWDKPEHIP

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DPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQIDNPDYKGTWIHPEIDNPE
YSPDANIYAYDSFAVLGLDLWQVKSGETFDNFLTND EAYAE EFGNETWGVTKAAEK
QMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDDDRDEDEDEEDEKEEDEEEESP
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 concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [Calr calreticulin \[Mus musculus \]](#)

Official Symbol [CALR](#)

Synonyms CALR; calreticulin; CRP55; ERp60; HACBP; CRT; Calregulin;

Gene ID [12317](#)

mRNA Refseq [NM_007591](#)

Protein Refseq [NP_031617](#)

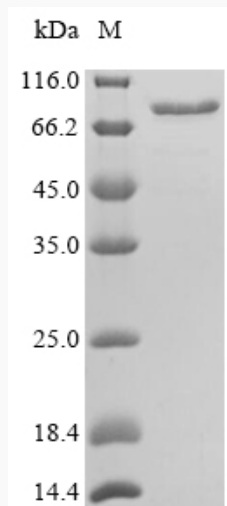
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UniProt ID

P14211



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

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