

Recombinant Mouse Calreticulin

Cat. No. Calr-1185M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Calr full length protein.
Species	Mouse
Source	E.coli
Description	Calr also known as calregulin, CRP55, CaBP3, calsequestrin-like protein, and endoplasmic reticulum resident protein 60 (ERp60) is a protein that in humans is encoded by the CALR gene. Calr is a multifunctional protein that binds Ca ²⁺ ions (a second messenger in signal transduction), rendering it inactive. The Ca ²⁺ is bound with low affinity, but high capacity, and can be released on a signal (see inositol triphosphate). Calr is located in storage compartments associated with the endoplasmic reticulum.
Form	Sterile filtered liquid in 50 mM Tris-Acetate, pH 7.5 + 1 mM EDTA + 20% glycerol.
Molecular Weight	57 kDa
Concentration	0.1 mg/ml
Endotoxin Level	< 0.1 ng/g of CALR
Storage	Stable for 1 year in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

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OfficialSymbol	Calr
Full Length	Full L.
GENE INFORMATION	
Gene Name	Calr calreticulin [Musmusculus]
Synonyms	Calr; calreticulin;CRT; SSA; CRTC; Calregulin; CRP55; RO; ERp60; grp60; cC1qR; HACBP; FLJ26680;Endoplasmic reticulum resident protein 60; OTTMUSP00000025211; endoplasmic reticulumresident protein 60; autoantigen Ro; Sicca syndrome antigen A (autoantigenRo; calreticulin)
Gene ID	12317
mRNA Refseq	NM_007591
Protein Refseq	NP_031617
UniProt ID	P14211
Chromosome Location	8 C3; 8 37.0 cM
Pathway	Activation ofChaperones by ATF6-alpha; Androgen Receptor Signaling Pathway; AndrogenReceptor Signaling Pathway; Calcium Regulation in the Cardiac Cell; Chagasdisease (American trypanosomiasis); Diabetes pathways; HTLV-I infection;Phagosome; Protein processing in endoplasmic reticulum; Unfolded ProteinResponse
Function	androgen receptorbinding; calcium ion binding; hormone binding; integrin binding;

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iron ionbinding; mRNA binding; metal ion binding; peptide binding; sugar binding;ubiquitin protein ligase binding; unfolded protein binding

**PDB rendering
basedon 1hhn.**

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