

## Recombinant Mouse Calreticulin

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Calr full length protein.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	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 <sup>2+</sup> ions (a second messenger in signal transduction), rendering it inactive. The Ca <sup>2+</sup> 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.
<b>Form</b>	Sterile filtered liquid in 50 mM Tris-Acetate, pH 7.5 + 1 mM EDTA + 20% glycerol.
<b>Molecular Weight</b>	57 kDa
<b>Concentration</b>	0.1 mg/ml
<b>Endotoxin Level</b>	< 0.1 ng/g of CALR
<b>Storage</b>	Stable for 1 year in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.

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<b>OfficialSymbol</b>	Calr
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	Calr calreticulin [ Musmusculus ]
<b>Synonyms</b>	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)
<b>Gene ID</b>	12317
<b>mRNA Refseq</b>	NM_007591
<b>Protein Refseq</b>	NP_031617
<b>UniProt ID</b>	P14211
<b>Chromosome Location</b>	8 C3; 8 37.0 cM
<b>Pathway</b>	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
<b>Function</b>	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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