

Recombinant Mouse Calr Protein, His-tagged

Cat. No. Calr-356M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Calr Protein (Pro19-Leu416) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Pro19-Leu416
Description	Enables calcium ion binding activity; carbohydrate binding activity; and mRNA binding activity. Involved in several processes, including cellular senescence; peptide antigen assembly with MHC class I protein complex; and protein stabilization. Acts upstream of or within cortical actin cytoskeleton organization; positive regulation of NIK/NF-kappaB signaling; and regulation of meiotic nuclear division. Located in endoplasmic reticulum; external side of plasma membrane; and extracellular space. Part of MHC class I peptide loading complex. Is expressed in several structures, including central nervous system; extraembryonic component; gut; placenta; and spleen. Used to study congestive heart failure. Human ortholog(s) of this gene implicated in essential thrombocythemia; myelofibrosis; pancreatic ductal adenocarcinoma; sideroblastic anemia; and thrombocytosis. Orthologous to human CALR (calreticulin).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.2 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Calr calreticulin [Mus musculus (house mouse)]
Official Symbol	Calr
Synonyms	CALR; calreticulin; CRP55; ERp60; HACBP; endoplasmic reticulum resident protein 60; CRT; Calregulin
Gene ID	12317
mRNA Refseq	NM_007591
Protein Refseq	NP_031617

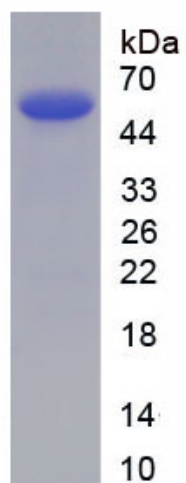
 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

UniProt ID

P14211

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA