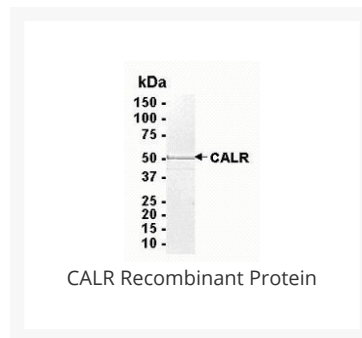




CALR Recombinant Protein

Cat. No.: XW-RP3028




Ψ Specifications

SPECIES:	Human
SOURCE SPECIES:	E. coli
SEQUENCE:	aa. 18-417
TESTED APPLICATIONS:	ELISA, MS, WB
APPLICATIONS:	This recombinant protein can be used for WB, ELISA, MS.
PREDICTED MOLECULAR WEIGHT:	46 kDa (Calculated)

Ψ Properties

PURITY:	~90%
PHYSICAL STATE:	Liquid
BUFFER:	10 mM Tris, pH 8.0, 0.002% NaN ₃ , 3mM NaCl, 2.5mM
STORAGE CONDITIONS:	Store in working aliquots at -70 °C. Avoid freeze/thaw cycles. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

OFFICIAL SYMBOL:	CALR
ALTERNATE NAMES:	RO, CRT, SSA, cC1qR, HEL-S-99n, CRTC, Calreticulin, CRP55, ERp60
ACCESSION NO.:	NP_004334
PROTEIN GI NO.:	4757900
GENE ID:	811

 Background and References

BACKGROUND:	Calreticulin is a multifunctional protein that acts as a major Ca(2+)-binding (storage) protein in the lumen of the endoplasmic reticulum. It is also found in the nucleus, suggesting that it may have a role in transcription regulation. Calreticulin binds to the synthetic peptide KLGFFKR, which is almost identical to an amino acid sequence in the DNA-binding domain of the superfamily of nuclear receptors. Calreticulin binds to antibodies in certain sera of systemic lupus and Sjogren patients which contain anti-Ro/SSA antibodies, it is highly conserved among species, and it is located in the endoplasmic and sarcoplasmic reticulum where it may bind calcium.
REFERENCES:	1) Horibe,T., Matsui,H., Tanaka,M., Nagai,H., Yamaguchi,Y., Kato,K. and Kikuchi,M. Gentamicin binds to the lectin site of calreticulin and inhibits its chaperone activity Biochem. Biophys. Res. Commun. 323 (1), 281-287 (2004)

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