

Product Data Sheet

Calreticulin/CALR Protein, Mouse (GST)

Cat. No.:	HY-P72112			
Synonyms:	CalrCalreticulin; CRP55; Calregulin; Endoplasmic reticulum resident protein 60; ERp60; HACBP			
Species:	Mouse			
Source:	E. coli			
Accession:	P14211 (D18-L416)			
Gene ID:	12317			
Molecular Weight:	Approximately 73.3 kDa			

PROPERTIES

AA Sequence						
	DPAIYFKEQF	LDGDAWTNRW	VESKHKSDFG	KFVLSSGKFY		
	GDLEKDKGLQ	T S Q D A R F Y A L	SAKFEPFSNK	GQTLVVQFTV		
	KHEQNIDCGG	GYVKLFPSGL	D Q K D M H G D S E	YNIMFGPDIC		
	G P G T K K V H V I	FNYKGKNVLI	NKDIRCKDDE	FTHLYTLIVR		
	PDNTYEVKID	NSQVESGSLE	DDWDFLPPKK	ΙΚDΡDΑΑΚΡΕ		
	DWDERAKIDD	PTDSKPEDWD	КРЕНІРDРDА	KKPEDWDEEM		
	DGEWEPPVIQ	NPEYKGEWKP	RQIDNPDYKG	ТѠӏНРЕІDNP		
	EYSPDANIYA	YDSFAVLGLD	LWQVKSGTIF	DNFLITNDEA		
	YAEEFGNETW	GVTKAAEKQM	KDKQDEEQRL	KEEEEDKKRK		
	EEEEAEDKED	DDDRDEDEDE	EDEKEEDEEE	SPGQAKDEL		
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm solution of Tris-based buffer, 50% Glycerol.					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.					
Storage & Stability	Stored at -20°C for 2 years	able at 4°C for 1 week or -20	for 1 week or -20°C for longer (with carrier protein). It is			
,	recommended to freeze aliquots at -20°C or -80°C for extended storage.					
	recommended to neeze anquots at -zo e or -oo e for extended storage.					
Shipping	Deem temperature in continental US may year alcowhere					
Sulphing	Room temperature in continental US;may vary elsewhere.					

DESCRIPTION

Background

Calreticulin/CALR protein, a calcium-binding chaperone, orchestrates crucial functions in the endoplasmic reticulum (ER) through the calreticulin/calnexin cycle, promoting the folding, oligomeric assembly, and quality control of glycoproteins. This lectin transiently interacts with nearly all monoglucosylated glycoproteins synthesized in the ER, contributing to their

proper maturation and function. Beyond its role in glycoprotein processing, CALR is involved in diverse cellular processes. It interacts with the DNA-binding domain of NR3C1, mediating its nuclear export and influencing gene expression regulation. Furthermore, CALR may play a role in oocyte maturation by regulating calcium homeostasis and participating in the cortical reaction during oocyte activation, potentially contributing to the block against polyspermy. CALR forms complexes with various proteins, including GABARAP, PDIA3/ERp57, and TRIM21, highlighting its versatile interactions within cellular pathways. It also engages in intricate protein-protein interactions with PPIB, SPACA9, and CLCC1, underscoring its involvement in diverse cellular processes and protein complexes.

Caution: Product has not been fully validated for medical applications. For research use only.

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