

Recombinant Full Length Human CALR Protein, C-Flag-tagged

Cat. No. CALR-90HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CALR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	Calreticulin is a highly conserved chaperone protein which resides primarily in the endoplasmic reticulum, and is involved in a variety of cellular processes, among them, cell adhesion. Additionally, it functions in protein folding quality control and calcium homeostasis. Calreticulin is also found in the nucleus, suggesting that it may have a role in transcription regulation. Systemic lupus erythematosus is associated with increased autoantibody titers against calreticulin. Recurrent mutations in calreticulin have been linked to various neoplasms, including the myeloproliferative type.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	46.4 kDa
AA Sequence	<p>MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFLVSSGKFY GDEEKDKGLQTSQ DARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKL FPNSLDQTDMHGDSEYNIMFGPDICGPG TTKVHVIFNYKGKNVLINKDIRCKDDEFT HLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKD PDASKPEDWDERAKID DPTDSKPEDWDKPEHIPDPDAKKPEDWDEEMDGEWEPPVIQNPEYKGEWKPRQI DNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFVGLGLDLWQVKSGTIFDNFLITNDEAY</p>

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AEEFGNETWGVT KAAEKQMKDKQDEEQRLKEEEEEDKKRKEEEEAEDKEDDEDKD
EDEEDEEDKEEDEEEDVPGQAKDELTRTRPLEQKLISEEDLAANDILDYKDDDDKV


Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Secreted Protein, Transcription Factors
Protein Pathways	Antigen processing and presentation
Full Length	Full L.

GENE INFORMATION

Gene Name	CALR calreticulin [Homo sapiens (human)]
Official Symbol	CALR
Synonyms	RO; CRT; SSA; cC1qR; HEL-S-99n
Gene ID	811

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mRNA Refseq	NM_004343.4
Protein Refseq	NP_004334.1
MIM	109091
UniProt ID	P27797

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