

## Product datasheet for PH303222

### Calreticulin (CALR) (NM\_004343) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	CALR MS Standard C13 and N15-labeled recombinant protein (NP_004334)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203222
Predicted MW:	48.1 kDa
Protein Sequence:	>RC203222 protein sequence Red=Cloning site Green=Tags(s)
	<p>MLLSVPLLLGLLGLAVAEPVYFKEQFLDGDGWTSRWIESKHKSDFGKFLVSSGKFYGDDEEKDKGLQTSQ DARFYALSASFEPFSNKGQTLVVQFTVKHEQNIDCGGGYVKLFPNSLDQTMHGDSEYNIIMFGPDIICGPG TKKVHVIFNYKGNL INKDIRCKDDEFTHLYTLIVRPDNTYEVKIDNSQVESGSLEDDWDFLPPKKIKD PDASKPEDWDERAKIDDPDTSKPEDWDKPEHIPDPAKKPEDWDEEMDGEWPEPVIQNPEYKGEWKPRQI DNPDYKGTWIHPEIDNPEYSPDPSIYAYDNFVGLGLDLWQVKSGTIFDNFLITNDEAYAEFFGNETWGV KAAEKQMKDKQDEEQRLKEEEEDKKRKEEEEAEDKEDDEDKDEDEEEDKEEEDVPGQAKDEL</p> <p>TRTRPLEQKLI SEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_004334</a>
RefSeq Size:	1929
RefSeq ORF:	1251
Synonyms:	cC1qR; CRT; HEL-S-99n; RO; SSA
Locus ID:	811



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UniProt ID: [P27797](#), [V9HW88](#)

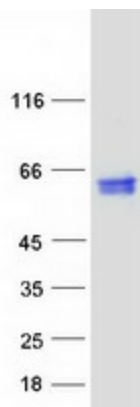
Cytogenetics: 19p13.13

**Summary:** 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.[provided by RefSeq, May 2020]

**Protein Families:** Druggable Genome, Secreted Protein, Transcription Factors

**Protein Pathways:** Antigen processing and presentation

### Product images:



Coomassie blue staining of purified CALR protein (Cat# [TP303222]). The protein was produced from HEK293T cells transfected with CALR cDNA clone (Cat# [RC203222]) using MegaTran 2.0 (Cat# [TT210002]).