

# Recombinant Human CALR3 Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CALR3-1907H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | CALR3 MS Standard C13 and N15-labeled recombinant protein (NP_659483) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | The protein encoded by this gene belongs to the calreticulin family, members of which are calcium-binding chaperones localized mainly in the endoplasmic reticulum. This protein is also localized to the endoplasmic reticulum lumen, however, its capacity for calcium-binding may be absent or much lower than other family members. This gene is specifically expressed in the testis, and may be required for sperm fertility. Mutation in this gene has been associated with familial hypertrophic cardiomyopathy. |
| <b>Molecular Mass</b>   | 45 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MARALVQFWAICMLRVALATVYFQEEFLDGEHWRNRWLQSTNDSRFGHFRLSSGK<br>FYGHKEKDKGLQTTQNGRFYAI SARFKPFSNKGKTLVIQYTVKHEQKMDCGGGYIK<br>VFPADIDQKNLNGKSQYYIMFGPDICGFDIKKVHVLHFKNKYHENKKLIRCKVDGFT<br>HLYTLILRPDLSYDVKIDGQSIESGSIEYDWNLTSLKKETSPAESKDWEQTKDNKAQD<br>WEKHFLDASTSKQSDWNGDLGDWPAPMLQKPPYQDGLKPEGIHKDVWLHRKMK<br>NTDYLTQYDLSEFENIGAIGLELWQVRSGTIFDNFLITDDEEYADNFGKATWGETKG<br>PEREMDAIQAKEEMKKAREEEEEELLSGKINRHEHYFNQFHRRNELTRTRPLEQKLI                                                                                       |

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|                       |                                                                                            |
|-----------------------|--------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                              |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                    |

## GENE INFORMATION

|                        |                                                                                                                                    |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CALR3 calreticulin 3 [ Homo sapiens (human) ]                                                                                      |
| <b>Official Symbol</b> | CALR3                                                                                                                              |
| <b>Synonyms</b>        | CALR3; calreticulin 3; calreticulin-3; calsperin; cancer/testis antigen 93; CRT2; CT93; FLJ25355; MGC26577; calreticulin-2; CMH19; |
| <b>Gene ID</b>         | 125972                                                                                                                             |
| <b>mRNA Refseq</b>     | NM_145046                                                                                                                          |
| <b>Protein Refseq</b>  | NP_659483                                                                                                                          |
| <b>MIM</b>             | 611414                                                                                                                             |
| <b>UniProt ID</b>      | Q96L12                                                                                                                             |

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**SDS-PAGE**

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