

## Recombinant Human CALR3, His-tagged

Cat. No. CALR3-10675H Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Human CALR3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Source           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| ProteinLength    | 1-384a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Description      | 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. |
| Storage          | The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Storage Buffer   | 1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.                                                                                                                                                                                                                                                                                                                                                     |

### GENE INFORMATION

|           |                                       |
|-----------|---------------------------------------|
| Gene Name | CALR3 calreticulin 3 [ Homo sapiens ] |
|-----------|---------------------------------------|

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|                            |                                                                                                                                    |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <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>             | <a href="#">125972</a>                                                                                                             |
| <b>mRNA Refseq</b>         | <a href="#">NM_145046</a>                                                                                                          |
| <b>Protein Refseq</b>      | <a href="#">NP_659483</a>                                                                                                          |
| <b>MIM</b>                 | <a href="#">611414</a>                                                                                                             |
| <b>UniProt ID</b>          | <a href="#">Q96L12</a>                                                                                                             |
| <b>Chromosome Location</b> | 19p13.11                                                                                                                           |
| <b>Function</b>            | calcium ion binding; sugar binding; unfolded protein binding;                                                                      |

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