

## Product datasheet for **TP721001**

### Calreticulin 3 (CALR3) (NM\_145046) Human Recombinant Protein

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Purified recombinant protein of Human calreticulin 3 (CALR3)   |
| Species:                              | Human  |
| Expression Host:                      | E. coli  |
| Expression cDNA Clone or AA Sequence: | Thr20-Leu384   |
| Tag:                                  | Tag Free   |
| Predicted MW:                         | 42.9 kDa   |
| Concentration:                        | lot specific   |
| Purity:                               | >95% as determined by SDS-PAGE and Coomassie blue staining   |
| Buffer:                               | Provided lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl   |
| Endotoxin:                            | Endotoxin level is < 0.1 ng/ $\mu$ g of protein (< 1 EU/ $\mu$ g)  |
| Reconstitution Method:                | Always centrifuge tubes before opening. Do not mix by vortex or pipetting. Dissolve the lyophilized protein in ddH <sub>2</sub> O. It is not recommended to reconstitute a concentration less than 100 $\mu$ g/ml. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. |
| Storage:                              | Store at -80°C.  |
| Stability:                            | Stable for at least 6 months from date of receipt under proper storage and handling conditions.  |
| RefSeq:                               | <a href="#">NP_659483</a>  |
| Locus ID:                             | 125972   |
| UniProt ID:                           | <a href="#">Q96L12</a> , <a href="#">A0A140VJF7</a>  |
| RefSeq Size:                          | 1295   |
| Cytogenetics:                         | 19p13.11   |
| RefSeq ORF:                           | 1152   |
| Synonyms:                             | CMH19; CRT2; CT93  |



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**Summary:**

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. [provided by RefSeq, Dec 2011]