

## Recombinant Human HRC Protein, His-tagged

**Cat. No.** HRC-2253H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human HRC Protein (Thr610-Pro699) with a N-His tag was expressed in E. coli.                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Thr610-Pro699                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene encodes a luminal sarcoplasmic reticulum protein identified by its ability to bind low-density lipoprotein with high affinity. The protein interacts with the cytoplasmic domain of triadin, the main transmembrane protein of the junctional sarcoplasmic reticulum (SR) of skeletal muscle. The protein functions in the regulation of releasable calcium into the SR. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 13.8 kDa<br>Accurate Molecular Mass: 14 kDa                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>        | <1.0 EU per 1g (determined by the LAL method).                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>           | > 90%                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                         |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Storage Buffer</b> | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                      |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

## GENE INFORMATION

|                        |                                                                                                                        |
|------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | HRC histidine rich calcium binding protein [ Homo sapiens (human) ]                                                    |
| <b>Official Symbol</b> | HRC                                                                                                                    |
| <b>Synonyms</b>        | HRC; histidine rich calcium binding protein; sarcoplasmic reticulum histidine-rich calcium-binding protein; MGC133236; |
| <b>Gene ID</b>         | 3270                                                                                                                   |
| <b>mRNA Refseq</b>     | NM_002152                                                                                                              |
| <b>Protein Refseq</b>  | NP_002143                                                                                                              |
| <b>MIM</b>             | 142705                                                                                                                 |
| <b>UniProt ID</b>      | P23327                                                                                                                 |

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