

# Recombinant Human RYR1 Protein, His&GST-tagged

**Cat. No.** RYR1-2037H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Human RYR1 Protein (His97-Cys392) with N-His&GST tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>ProteinLength</b>    | His97-Cys392                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | This gene encodes a ryanodine receptor found in skeletal muscle. The encoded protein functions as a calcium release channel in the sarcoplasmic reticulum but also serves to connect the sarcoplasmic reticulum and transverse tubule. Mutations in this gene are associated with malignant hyperthermia susceptibility, central core disease, and minicore myopathy with external ophthalmoplegia. Alternatively spliced transcripts encoding different isoforms have been described. |
| <b>Form</b>             | Freeze-dried powder                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Molecular Mass</b>   | Predicted Molecular Mass: 63.2 kDa<br>Accurate Molecular Mass: 63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Purity</b>           | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.                                                                                                                                                                                                                                                                                                                                                                                                                                             |

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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> | 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                          |
| <b>Reconstitution</b> | Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                            |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">RYR1 ryanodine receptor 1 [ Homo sapiens (human) ]</a>                                                                                                                                                                                                                                                                  |
| <b>Official Symbol</b> | <a href="#">RYR1</a>                                                                                                                                                                                                                                                                                                                |
| <b>Synonyms</b>        | Ryr1; ryanodine receptor 1; RYR-1; Ryr1l; ryanodine receptor 1; ryanodine receptor 1 (skeletal); ryanodine receptor 1, skeletal muscle; ryanodine receptor 1-like, skeletal muscle; skeletal muscle calcium release channel; skeletal muscle ryanodine receptor; skeletal muscle-type ryanodine receptor; type 1 ryanodine receptor |
| <b>Gene ID</b>         | <a href="#">6261</a>                                                                                                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>     | <a href="#">NM_000540</a>                                                                                                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>  | <a href="#">NP_000531</a>                                                                                                                                                                                                                                                                                                           |

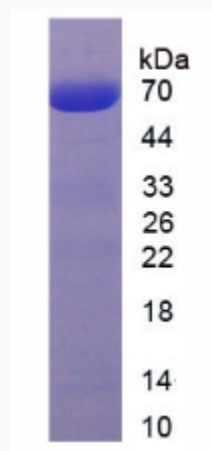
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MIM 180901

UniProt ID P21817



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