

# Recombinant Human RYR1 Protein Product Manual

## 1. Product Basic Information

**Product No.:** REP08145

**Protein Name:** Ryanodine Receptor Central Core Disease Of Muscle (RYR1)

**Aliases:** CCO; KDS; MHS; RYR; MHS1; RYDR; SKRR; RYR-CMYO1A; CMYO1B; CMYP1A; CMYP1B; PPP1R137; ryanodine receptor central core disease of muscle; type 1-like ryanodine receptor; ryanodine receptor 1 (skeletal); ...

**UniProt ID:** P21817

**UniProt Link:** <https://www.uniprot.org/uniprotkb/P21817/entry>

**Species Source:** Homo sapiens (Human)

**Expression System:** E.coli

**Protein Length:** Partial (1-534aa)

**Molecular Weight:** 63.3kDa

**Protein Tag:** N-terminal 6xHis-tagged

## 2. Amino Acid Sequence (1-534aa)

MGDAEGEDEVQFLRTDDEVVLQCSATVLKEQLKLCCLAAEGFGNRLCFLEPTSNAQ  
NVPPDLAICCFVLEQSLSVRALQEMLANTVEAGVESSQGGGHRLLYGHAILLRHA  
HSRMYLSCLTTSRSMTDKLAFDVGLQEDATGEACWWTMHPASKQRSEGEKVRVG  
DDIILVSVSSERYLHLSTASGELQVDASFMQTLWNMNPICSRCEEGFVTGGHVLRLF  
HGHMDECLTISPADSDDQRRLVYYEGGAVCTHARSLWRLEPLRISWSGSHLRWG  
QPLRVRHVTTGQYLALTEDQGLVVVDASKAHTKATSF CFRISKEKLDVAPKRDVEG  
MGPPEIKYGESLCFVQHVASGLWLTYAAPDPKALRLGVLKKKAMLHQEGHMDDAL  
SLTRCQQEESQAARMIHSTNGLYNQFIKSLDSFSGKPRGSGPPAGTALPIEGVILSL  
QDLIIYFEPPSEDLQHEEKQSKLRSLRNRSLSLFQEEGMLSMVLNCIDRLNVYTAAH  
FAEFAGEEAAESWKEIVNLLYELLASLIRGNRS

## 3. Storage Buffer

**Liquid Delivery Form:** Tris/PBS-based buffer with 5%-50% glycerol. Custom glycerol content is available upon customer request (please specify requirements when placing orders).



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**Lyophilized Powder Delivery Form:** Pre-lyophilization buffer is Tris/PBS-based buffer containing 6% Trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20°C or -80°C. It is recommended to aliquot the protein for multiple uses to avoid repeated freeze-thaw cycles, which may cause protein denaturation and activity loss.

## 5. Product Description

This product is a recombinant Human RYR1 partial protein (1-534aa) expressed in E.coli. The protein is with 6xHis tag at the N-terminus, which facilitates protein purification, detection and identification. RYR1, also known as CCO or KDS or MHS, is suitable for related in vitro functional assays, protein interaction studies, antibody preparation and other biomedical research applications.

## 6. Notes

- Repeated freezing and thawing of the product is strictly prohibited to ensure protein stability and biological activity.
- For special buffer component requirements, please submit a note when purchasing.
- This product is only for scientific research use, not for clinical diagnosis, treatment or commercial production purposes.