

Recombinant Human RYR1 Protein (1-534 aa), His-tagged

Cat. No. RYR1-789H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RYR1 Protein (1-534 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Research Area: Transport. Protein Description: Partial.
Species	Human
Source	E.coli
ProteinLength	1-534 aa
Description	Calcium channel that mediates the release of Ca ²⁺ from the sarcoplasmic reticulum into the cytoplasm and thereby plays a key role in triggering muscle contraction following depolarization of T-tubules. Repeated very high-level exercise increases the open probability of the channel and leads to Ca ²⁺ leaking into the cytoplasm. Can also mediate the release of Ca ²⁺ from intracellular stores in neurons, and may thereby promote prolonged Ca ²⁺ signaling in the brain. Required for normal bryonic development of muscle fibers and skeletal muscle. Required for normal heart morphogenesis, skin development and ossification during bryogenesis.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	63.3 kDa
AA Sequence	MGDAEGEDEVQFLRTDDEVVLQCSATVLKEQLKLCLAAEGFGNRLCFLEPTSNAQN VPPDLAICCFVLEQSLSVRALQEMLANTVEAGVESSQGGGHRITLLYGHAILLRHAHS

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RMYLSCLTTSRSMTDKLAFDVGLQEDATGEACWWTMHPASKQRSEGEKVRVGDDI
 ILVSVSSERYLHLSTASGELQVDASFMQTLWNMNPICSRCEEGFVTGGHVLRLFHG
 HMDECLTISPADSDDQRRLVYYEGGAVCTHARSLWRLEPLRISWSGSHLRWGQPL
 RVRHVTTGQYLALTEDQGLVVVDASKAHTKATSFCFRISKEKLDVAPKRDVEGMGP
 PEIKYGESLCFVQHVASGLWLTAAAPDPKALRLGVLKKKAMLHQEGHMDDALSLTR
 CQQEESQAARMIHSTNGLYNQFIKSLDSFSGKPRGSGPPAGTALPIEGVILSLQDLIY
 FEPPSEDLQHEEKQSKLRSLRNRQSLFQEEGMLSMVLNCIDRLNVYTAAHFAEFA
 GEEAAESWKEIVNLLYELLASLIRGNRS

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

Storage The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name [RYR1 ryanodine receptor 1 \[Homo sapiens \(human\) \]](#)

Official Symbol [RYR1](#)

Synonyms CCO; MHS; RYR; MHS1; RYDR; SKRR; RYR-1; PPP1R137;

Gene ID [6261](#)

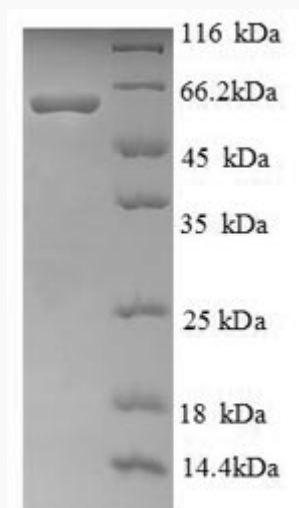
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UniProt ID

P21817



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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