



# Recombinant Human Ryanodine receptor 1 (RYR1), partial

<b>Product Code</b>	CSB-EP020619HU
<b>Relevance</b>	Calcium channel that mediates the release of Ca <sup>2+</sup> 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 <sup>2+</sup> leaking into the cytoplasm. Can also mediate the release of Ca <sup>2+</sup> from intracellular stores in neurons, and may thereby promote prolonged Ca <sup>2+</sup> 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 .
<b>Storage</b>	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°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P21817
<b>Alias</b>	Skeletal muscle calcium release channelSkeletal muscle ryanodine receptorSkeletal muscle-type ryanodine receptorType 1 ryanodine receptor
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥ 90% as determined by SDS-PAGE.
<b>Sequence</b>	MGDAEGEDEVQFLRTDDEVVLQCSATVLKEQLKLCLAAEGFGNRLCFLEPTS NAQNVPPDLAICCFVLEQSLSVRALQEMLANTVEAGVESSQGGGHRTLLYGH AILLRHAHSRMYLSCLTTSRSMTDKLAFDVGLQEDATGEACWWTMHPASKQR SEGEKVRVGGDDIILVSVSSERYLHLSTASGELQVDASFMQTLWNMNPICSRCE EGFVTGGHVLRLFHGHMDECLTISPADSDDQRRLLVYYEGGAVCTHARSLWRL EPLRISWSGSHLRWGQPLRVRHVTTGQYLALTEDQGLVVVDASKAHTKATSF CFRISKEKLDVAPKRDVEGMGPPEIKYGESLCFVQHVASGLWLTYAAPDPKAL RLGVLKKKAMLHQEGHMDDALSLTRCQQEESQAARMIHSTNGLYNQFIKSLD SFSGKPRGSGPPAGTALPIEGVILSLQDLIIYFPPSEDLQHEEKQSKLRSRNR QSLFQEEGMLSMVLNCIDRLNVYTAAHFAEFAGEEAAESWKEIVNLLYELLAS LIRGNRS
<b>Research Area</b>	Transport
<b>Source</b>	E.coli
<b>Target Names</b>	RYR1
<b>Expression Region</b>	1-534aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

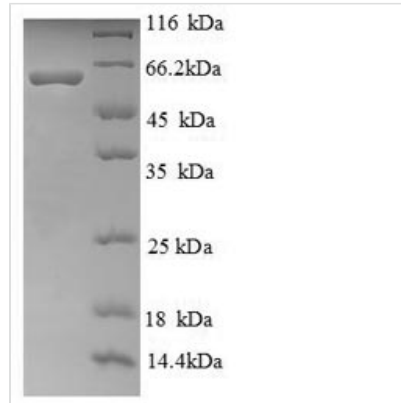


**Tag Info** N-terminal 6xHis-tagged

**Mol. Weight** 63.3kDa

**Protein Length** Partial

**Image**



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

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

**Shelf Life**

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