

Recombinant Human RYR2 protein (Cardiac), His-tagged

Cat. No. RYR2-356H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RYR2 protein (Cardiac, Met1-Arg606), fused to His-tag at the N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Arg606
Description	This gene encodes a ryanodine receptor found in cardiac muscle sarcoplasmic reticulum. The encoded protein is one of the components of a calcium channel, composed of a tetramer of the ryanodine receptor proteins and a tetramer of FK506 binding protein 1B proteins, that supplies calcium to cardiac muscle. Mutations in this gene are associated with stress-induced polymorphic ventricular tachycardia and arrhythmogenic right ventricular dysplasia.
Form	Freeze-dried powder. 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Molecular Mass	Predicted Molecular Mass: 71.5 kDa; Accurate Molecular Mass: 77 kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	> 95%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

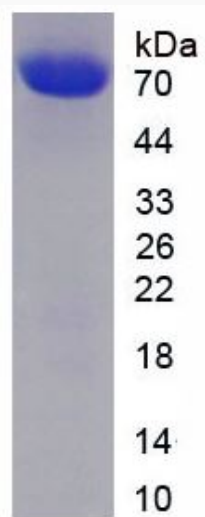
Gene Name	RYR2
Official Symbol	RYR2
Synonyms	RyR; ARVC2; ARVD2; RYR-2; VTSIP
Gene ID	6262
mRNA Refseq	NM_001035.3
Protein Refseq	NP_001026.2
MIM	180902
UniProt ID	Q92736

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**SDS-PAGE of RYR2-
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