

Recombinant Rat Ryr1 Protein, His-tagged

Cat. No. Ryr1-2038R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ryr1 Protein (His99-Cys394) with N-His tag was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	His99-Cys394
Description	Enables ryanodine-sensitive calcium-release channel activity. Involved in release of sequestered calcium ion into cytosol by sarcoplasmic reticulum; response to estradiol; and response to purine-containing compound. Located in sarcolemma; sarcoplasmic reticulum membrane; and terminal cisterna. Is extrinsic component of cytoplasmic side of plasma membrane. Human ortholog(s) of this gene implicated in central core disease; malignant hyperthermia; and multiminicore disease. Orthologous to human RYR1 (ryanodine receptor 1).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 33.2 kDa Accurate Molecular Mass: 63 kDa
Purity	> 97%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.

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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.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	Ryr1 ryanodine receptor 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Ryr1
Synonyms	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
Gene ID	114207
mRNA Refseq	XM_039100851
Protein Refseq	XP_038956779
UniProt ID	F1LMY4

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