Recombinant Mouse Ryr1 Protein, His&GST-tagged

Cat. No. Ryr1-2669M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Ryr1 Protein (His99-Cys394) with a N-His&GST tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	His99-Cys394
Description	Enables protease binding activity; ryanodine-sensitive calcium-release channel activity; and voltage-gated calcium channel activity. Involved in animal organ development; cellular response to caffeine; and release of sequestered calcium ion into cytosol by sarcoplasmic reticulum. Acts upstream of or within muscle contraction and release of sequestered calcium ion into cytosol. Located in T-tubule; sarcoplasmic reticulum membrane; and smooth endoplasmic reticulum. Part of junctional membrane complex. Is expressed in several structures, including brain; embryo mesenchyme; endocrine gland; heart; and skeletal musculature. Used to study central core disease and malignant hyperthermia. 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: 63.2 kDa Accurate Molecular Mass: 63 kDa

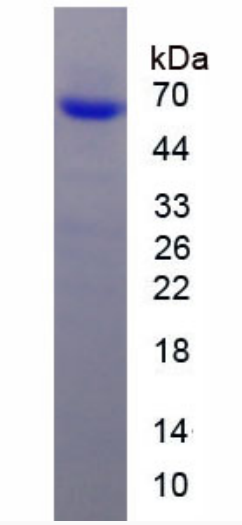
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Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation 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.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
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	Ryr1 ryanodine receptor 1, skeletal muscle [Mus musculus (house mouse)]
Official Symbol	Ryr1
Synonyms	Ryr1; ryanodine receptor 1, skeletal muscle; Ryr; skrr; RYR-1; AI528790; ryanodine receptor 1 calcium release channel skeletal muscle calcium release channel skeletal muscle ryanodine receptor

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	skeletal muscle-type ryanodine receptor type 1 ryanodine receptor
Gene ID	20190
mRNA Refseq	NM_009109
Protein Refseq	NP_033135
UniProt ID	E9PZQ0
	

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