

TRIM63 Protein, Rat, Recombinant (His & Myc)

General Information

Synonyms:	Tripartite motif-containing protein 63;Murf1;RING-type E3 ubiquitin transferase TRIM63;E3 ubiquitin-protein ligase TRIM63;Muscle-specific RING finger protein 1 (MuRF-1;MurF1);Trim63
Protein Construction:	1-351 aa
Species:	Rat
Expression Host:	E. coli
Accession:	Q91Z63
Molecular Weight:	47.2 kDa (predicted)
AA Sequence:	MDYKSLIPDGNAMENLEKQLICPICLEMFTKPVVILPCQHNLCRKCANDIFQAANPYWTNRGGSVSMMSGGR FRCPSRHEVIMDRHG VYGLQRNLLVENIIDIYKQECSSRPLQKGSHPMCKEHEDEKINIYCLTCEVPTCSLCKV FGAHQACEVAPLQSI FQGQKTELSNCISMLVAGNDRVQTIISQLEDSCRVTKENSHQVKEELSHKFDALYAILD EKKSELLQRITQE QEEKLDFIEALILQYREQLEKSTKL VETAIQSLDEPGGATFLLSAKPLIKSIVEASKGCQLGKT EQGFENMDYFTLNLEHIAEALRAIDFGTDEEEEFTEEEEEEEDQEEGVSTEGHQ

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

A DRUG SCREENING EXPERT

E3 ubiquitin ligase. Mediates the ubiquitination and subsequent proteasomal degradation of CKM, GMEB1 and HIBADH. Regulates the proteasomal degradation of muscle proteins under amino acid starvation, where muscle protein is catabolized to provide other organs with amino acids. Inhibits de novo skeletal muscle protein synthesis under amino acid starvation. Regulates proteasomal degradation of cardiac troponin I/TNNI3 and probably of other sarcomeric-associated proteins. May play a role in striated muscle atrophy and hypertrophy by regulating an anti-hypertrophic PKC-mediated signaling pathway. May regulate the organization of myofibrils through TTN in muscle cells.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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