# Recombinant Rat Trim72 protein, His/S-tagged

**Cat. No.** Trim72-158R **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Rat Trim72 fused with His/S tag was expressed in E. coli. |
| **Species** | Rat |
| **Source** | E.coli |
| **Description** | The tripartite motif (TRIM) family of proteins are characerized by a conserved TRIM domain that includes a coiled-coil region, a B-box type zinc finger, one RING finger and three zinc-binding domains. TRIM72 (tripartite motif containing 72), also known as MG53, is a 477 amino acid cytoplasmic vesicle membrane protein that belongs to the TRIM/RBCC family. Existing as a homooligomer, TRIM72 contains one B box-type zinc finger, one B30.2/SPRY domain and a RING-type zinc finger. TRIM72 is considered a muscle-specific protein that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites. TRIM72 is required for transport of dysferlin to sites of cell injury during repair patch formation. TRIM72 also regulates membrane budding and exocytosis and may be involved in the regulation of the mobility of KV2.1-containing endocytic vesicles. TRIM72 exists as two alternatively spliced isoforms and is encoded by a gene located on human chromosome 16p11.2. |
| **Form** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | > 95 % as determined by SDS-PAGE |
| **Storage** | Store at -70 centigrade. Avoid repeated freeze/thaw cycles. |

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## GENE INFORMATION

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| **Gene Name** | Trim72 tripartite motif-containing 72 [ Rattus norvegicus ] |
| **Official Symbol** | Trim72 |
| **Synonyms** | TRIM72; tripartite motif-containing 72; tripartite motif-containing protein 72; mg53; mitsugumin-53; RGD1562778; MGC156817; |
| **Gene ID** | 365377 |
| **mRNA Refseq** | NM_001077675 |
| **Protein Refseq** | NP_001071143 |
| **UniProt ID** | A0JPQ4 |
| **Chromosome Location** | 1q37 |
| **Function** | metal ion binding; phosphatidylserine binding; phosphatidylserine binding; zinc ion binding; |

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