

Recombinant Human TRIM72 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TRIM72-3379H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TRIM72 MS Standard C13 and N15-labeled recombinant protein (NP_001008275) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Muscle-specific protein that plays a central role in cell membrane repair by nucleating the assembly of the repair machinery at injury sites. Specifically binds phosphatidylserine. Acts as a sensor of oxidation: upon membrane damage, entry of extracellular oxidative environment results in disulfide bond formation and homooligomerization at the injury site. This oligomerization acts as a nucleation site for recruitment of TRIM72-containing vesicles to the injury site, leading to membrane patch formation. Probably acts upstream of the Ca ²⁺ -dependent membrane resealing process. Required for transport of DYSF to sites of cell injury during repair patch formation. Regulates membrane budding and exocytosis. May be involved in the regulation of the mobility of KCNB1-containing endocytic vesicles.
Molecular Mass	52.6 kDa
AA Sequence	MSAAPGLLHQELSCPLCLQLFDAPVTAECGHSFCRACLGRVAGEPAADGTVLCPCQ QAPTRPQALSTNLQLARLVEGLAQVPQGHCEEHLDP LSIYCEQDRALVCGVCASLG SHRGHRLLPAAEAHARLKTQLPQQKLQLQEACMRKEKSVAVLEHQLVEVEETVRQF

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RGAVGEQLGKMRVFLAALEGLDREAERVGEAGVALRRELGSLNSYLEQLRQME
 KVLEEVADKPQTEFLMKYCLVTSRLQKILAESPPPARLDIQLPIISDDFKFQVWRKMF
 RALMPALEELTFDPSSAHPSTLVVSSSGRRVECSEQKAPPAGEDPRQFDKAVAVVAH
 QQLSEGEHYWEVDVGDKPRWALGVIAAEAPRRGRLHAVPSQGLWLLGLREGKILE
 AHVEAKEPRALRSPERRPTRIGLYLSFGDGVLSFYDASDADALVPLFAFHERLPRPV
 YPFFDVCWHDKGKNAQPLLLVGPEGAETRTRPLEQKLISEEDLAANDILDYKDDDD
 KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TRIM72 tripartite motif containing 72 [Homo sapiens (human)]

Official Symbol TRIM72

Synonyms TRIM72; tripartite motif containing 72; tripartite motif-containing protein 72; mitsugumin-53; tripartite motif-containing 72; MG53;

Gene ID 493829

mRNA Refseq NM_001008274

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Protein Refseq NP_001008275

MIM 613288

UniProt ID Q6ZMU5

SDS-PAGE



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