

Recombinant Human TPM3, His-tagged

Cat. No. TPM3-55H Lot. No. (See product label)

SPECIFICATION

Product Overview	Full-length recombinant human TPM3 protein was expressed in E.coli cells using an N-terminal His tag.
Species	Human
Source	E.coli
Description	TPM3 or tropomyosin 3 is a member of the tropomyosin family of actin-binding proteins that are dimers of coiled-coil proteins that provide stability to actin filaments and regulate access of other actin-binding proteins. TPM3 involved in translocations with other loci, including anaplastic lymphoma receptor tyrosine kinase (ALK) and neurotrophic tyrosine kinase receptor type 1 (NTRK1), which result in the formation of fusion proteins that act as oncogenes. TPM3 protein is substituted for the external domain of a putative tyrosine-kinase cell surface receptor to create the TRK oncogene. TPM3 are a common cause of congenital fiber type disproportion.
Form	50mM sodium phosphate, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
Molecular Mass	~39 kDa
Applications	Western Blot
Storage	Store product at -70oC. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable

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performance, avoid repeated handling and multiple freeze/thaw cycles.

GENE INFORMATION

Gene Name	TPM3 tropomyosin 3 [Homo sapiens]
Official Symbol	TPM3
Synonyms	TPM3; tropomyosin 3; NEM1; tropomyosin alpha-3 chain; TRK; tropomyosin-3; tropomyosin-5; gamma-tropomyosin; tropomyosin gamma; cytoskeletal tropomyosin TM30; heat-stable cytoskeletal protein 30 kDa; TM3; TM5; CFTD; TM-5; TM30; hTM5; TM30nm; TPMsk3; hscp30; OK/SW-cl.5; MGC3261; FLJ41118; MGC14582; MGC72094;
Gene ID	7170
mRNA Refseq	NM_001043351
Protein Refseq	NP_001036816
MIM	191030
UniProt ID	P06753
Chromosome Location	1q21.2
Pathway	Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Dilated cardiomyopathy, organism-specific biosystem; Dilated cardiomyopathy, conserved biosystem; Hypertrophic cardiomyopathy (HCM), organism-specific biosystem; Hypertrophic cardiomyopathy

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(HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;

Function

actin binding; molecular_function;

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