

Recombinant Human TPM3

Cat. No. TPM3-30684TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Tropomyosin 3 with N terminal proprietary tag, 41kDa.
Species	Human
Source	E.coli
Description	This gene encodes a member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. In muscle cells, they regulate muscle contraction by controlling the binding of myosin heads to the actin filament. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Multiple transcript variants encoding different isoforms have been found for this gene.
Molecular Weight	41.000kDa
Form	Lyophilised: Add 200ul of distilled water.
Storage buffer	pH: 6.80 Constituents: 1.58% Tris HCl, 3.09% DTT, 4% SDS, 0.2% Bromophenol blue, 20% Sucrose

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequence Similarities	Belongs to the tropomyosin family.
GENE INFORMATION	
Gene Name	TPM3 tropomyosin 3 [Homo sapiens]
Official Symbol	TPM3
Synonyms	TPM3; tropomyosin 3; NEM1; tropomyosin alpha-3 chain; TRK;
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;



Function

actin binding; molecular_function;

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