

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	<p>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.</p>
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;

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Function

actin binding; molecular_function;

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