

Recombinant Human Tropomyosin 4, His-tagged

Cat. No. TPM4-3003H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPM4 protein was expressed in E.coli with His-tag at the N-terminus. The molecular weight is 28391 Da(248 aa).
Species	Human
Source	E.coli
Description	Tropomyosin alpha-4 chain is a protein that in humans is encoded by the TPM4 gene. 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. Multiple transcript variants encoding different isoforms have been found for this gene.
Sequences of amino acids	1-248 aa
Formulation	10 mM Tris. pH 8.0. 0.002% NaN ₃ . 3mM NaCl. 2.5mM Imidazole.
Purity	95%

GENE INFORMATION

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Gene Name	TPM4 tropomyosin 4 [Homo sapiens]
Synonyms	tropomyosin alpha-4 chain; TM30p1; tropomyosin-4
Gene ID	7171
mRNA Refseq	NM_003290
Protein Refseq	NP_003281
MIM	600317
UniProt ID	P67936
Chromosome Location	19p13.1
Pathway	Cardiac muscle contraction; Dilated cardiomyopathy; Hypertrophic cardiomyopathy (HCM); Muscle contraction
Function	actin binding; calcium ion binding; structural constituent of muscle

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