

## Recombinant Human Tropomyosin 4, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TPM4 protein was expressed in E.coli with His-tag at the N-terminus. The molecular weight is 28391 Da(248 aa).
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Sequences of amino acids</b>	1-248 aa
<b>Formulation</b>	10 mM Tris. pH 8.0. 0.002% NaN <sub>3</sub> . 3mM NaCl. 2.5mM Imidazole.
<b>Purity</b>	95%

### GENE INFORMATION

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

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