

Recombinant Human Tropomyosin 4, His-tagged

Cat. No. TPM4-6899H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TPM4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques. MW: 30.7 kDa.
Species	Human
Source	E.coli
ProteinLength	1-248aa
Description	TPM4 belongs to the tropomyosin family. Tropomyosins are present in virtually all eukaryotic cells (both muscle and nonmuscle), where they bind actin filaments and function to modulate actin-myosin interaction and stabilize actin filament structure. TPM4 binds to actin filaments in muscle and nonmuscle cells and plays a central role, in association with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction. Smooth muscle contraction is regulated by interaction with caldesmon.
Form	Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.
Molecular Mass	30.7 kDa (268aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MAGLNSLEAV KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRYEEVA

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RKLVILEGEL ERAEERA EVS ELKCGDLEEE LKNVTNNLKS LEAASEKYSE
KEDKYEEIEIK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL EEKLAQAKEE
NVGLHQTLTDQ TLNELNCI

Purity >85% by SDS-PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 1 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name TPM4 tropomyosin 4 [Homo sapiens]

Official Symbol TPM4

Synonyms TPM4; tropomyosin 4; tropomyosin alpha-4 chain; TM30p1; tropomyosin-4;

Gene ID 7171

mRNA Refseq NM_001145160

Protein Refseq NP_001138632

MIM 600317

UniProt ID P67936

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Chromosome Location	19p13.1
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 (HCM), conserved biosystem; Muscle contraction, organism-specific biosystem;
Function	actin binding; calcium ion binding; structural constituent of muscle;

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