

Recombinant Human TPM1 Protein, His-tagged

Cat. No. TPM1-165H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPM1(Met1-Met284), transcript variant 5, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Met1-Met284
Description	This gene is a member of the tropomyosin family of highly conserved, widely distributed actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosin is composed of two alpha-helical chains arranged as a coiled-coil. It is polymerized end to end along the two grooves of actin filaments and provides stability to the filaments. The encoded protein is one type of alpha helical chain that forms the predominant tropomyosin of striated muscle, where it also functions in association with the troponin complex to regulate the calcium-dependent interaction of actin and myosin during muscle contraction. In smooth muscle and non-muscle cells, alternatively spliced transcript variants encoding a range of isoforms have been described. Mutations in this gene are associated with type 3 familial hypertrophic cardiomyopathy.
Form	20mM Tris, 1mM DTT, 100mM NaCl, 20% Glycerol, pH 8.0.
Molecular Mass	35 kDa

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Endotoxin	< 0.1 EU per g protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Storage	Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
Concentration	>50 ug/mL as determined by microplate BCA method
GENE INFORMATION	
Gene Name	TPM1 tropomyosin 1 (alpha) [Homo sapiens]
Official Symbol	TPM1
Synonyms	TPM1; tropomyosin 1 (alpha); C15orf13, cardiomyopathy, hypertrophic 3 , chromosome 15 open reading frame 13 , CMH3; tropomyosin alpha-1 chain; alpha-tropomyosin; sarcomeric tropomyosin kappa; cardiomyopathy, hypertrophic 3; tropomyosin 1 (alpha) isoform 1; tropomyosin 1 (alpha) isoform 2; tropomyosin 1 (alpha) isoform 3; tropomyosin 1 (alpha) isoform 4; tropomyosin 1 (alpha) isoform 5; tropomyosin 1 (alpha) isoform 6; tropomyosin 1 (alpha) isoform 7; CMH3; TMSA; CMD1Y; C15orf13; HTM-alpha;
Gene ID	7168
mRNA Refseq	NM_000366
Protein Refseq	NP_000357
MIM	191010

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