

Recombinant Human TPM2 protein, His-tagged

Cat. No. TPM2-3442H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human TPM2(1-284aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-284 a.a.
Description	Tropomyosin beta chain isoform 2, also known as TPM2, is a member of the actin filament binding protein family which mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogyrosis syndromes.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 100mM NaCl
Molecular Mass	35.1 kDa (304aa) confirmed by MALDI-TOF (molecular weight on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHH SSGLVPRGSHLEQAEEKATD AADVASLNR RIQLVEEELD RAQERLATAL QKLEEAEEKAA DESERGMKVI ENRAMKDEEK MELQEMQLKE AKHIAEDSDR KYEEVARKLV ILEGELERSE ERAEVAESRA RQLEEEELRTM DQALKSLMAS EEEYSTKEDK YEEEIKLLEE KLKEAETRAE FAERSVAKLE

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MDAIKKKMQM LKLDKENAID RAEQAEADKK QAEDRCKQLE EEQQALQKKL
 KGTEDEVEKY SESVKEAQEKKTIDDLEETL ASAKEENVEI HQTLDQTLLE LNNL

Purity >90% by SDS - PAGE

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

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name TPM2 tropomyosin 2 (beta) [Homo sapiens]

Official Symbol TPM2

Synonyms TPM2; tropomyosin 2 (beta); AMCD1, arthrogyrosis multiplex congenital, distal, type 1; tropomyosin beta chain; DA1; tropomyosin-2; DA2B; NEM4; TMSB; AMCD1;

Gene ID 7169

mRNA Refseq NM_213674

Protein Refseq NP_998839

MIM 190990

UniProt ID P07951

Chromosome Location 9p13

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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; structural constituent of muscle;

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