

# Recombinant human TPM4 protein

Catalog Number: ATGP0992

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-248aa

### UniProt No.

P67936

### NCBI Accession No.

NP\_003281

### Alternative Names

Tropomyosin alpha-4 chain, Tropomyosin 4

## PRODUCT SPECIFICATION

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### Molecular Weight

30.7 kDa (268aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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. Recombinant human TPM4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

## Amino acid Sequence

MGSSHHHHHH SGLVPRGSH MAGLNSLEAV KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE  
EELDRAQERL ATALQKLEEA EKAADESERG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRYEEVA RKLVILEGEL  
ERAEERAQEV ELKCGDLEEE LKNVTNNLKS LEAASEKYSE KEDKYEEIEK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL  
EEKLAQAKKE NVGLHQTLTDQ TLNELNCI

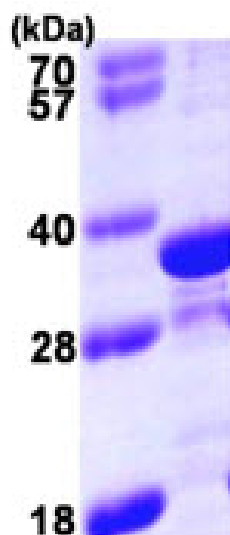
## General References

Lehman W., et al. (2000) J Mol Biol. 302(3):593-606.

Wilton SD., et al. (1996) Cytogenet Cell Genet. 72(4):294-6.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)