

Recombinant human TPM4 protein

Catalog Number: ATGP0992

PRODUCT INFORMATION

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

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

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 SSGLVPRGSH MAGLNSLEAV KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE
EELDRAQERL ATALQKLEEA EKAADSESRG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRYEEVA RKLVILEGEL
ERAEERAQEV ELKCGDLEEE LKNVTNNLKS LEAASEKYSE KEDKYEEIEK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL
EEKLAQAKEE NVGLHQTLTDQ TLNELNCI

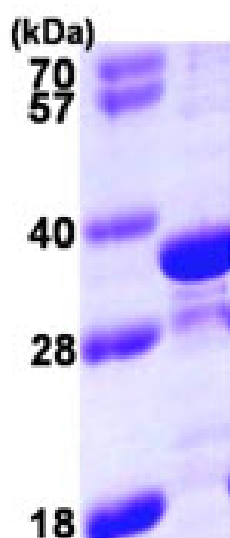
General References

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)