

Product information

TPM4, 1-248 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0992

Full name: Tropomyosin alpha-4 chain

NCBI Accession No.: NP_003281

Synonyms: Tropomyosin 4.

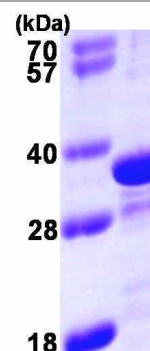
Description: TPM4 belongs to the tropomyosin family. Tropomyosins are present in virtually all eukaryotic cells (both muscle and nonmuscle), where they bind actin filaments and function to modulate actin-myosin interaction and stabilize actin filament structure. TPM4 binds to actin filaments in muscle 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 chromatography techniques.

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

Molecular Weight: 30.7 kDa (268aa), confirmed by MALDI-TOF

Purity: > 85% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MAGLNSLEAV KRKIQALQQQ ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE EELDRAQERL
ATALQKLEEA EKAADESERG MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRYEEVA RKLVILEGEL ERAEERA EVS ELKCGDLEEE
LKNVTNNLKS LEAASEKYSE KEDKYEEEIK LLSDKLKEAE TRAEFAERTV AKLEKTIDDL EEKLAQAKEE NVGLHQTLQD TLNENLCI

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.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.