

TPM4 Human

Description: TPM4 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 268 amino acids (1-248 a.a.) and having a molecular mass of 30.7kDa. TPM4 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-194

Synonyms: Tropomyosin alpha-4 chain, TM30p1, Tropomyosin-4, TPM4.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAGLNSLEAV KRKIQLQQQ
ADEAEDRAQG LQRELDGERE RREKAEGDVA ALNRRIQLVE EELDRAQERL ATALQKLEEA
EKADESERK MKVIENRAMK DEEKMEIQEM QLKEAKHIAE EADRYEEVA RKLVILEGEL
ERAERAEVS ELKCGDLEEE LKNVTNNLKS LEAASEKYSE KEDKYEEIEK LLSDKLKEAE
TRAEFAERTV AK

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:

The TPM4 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.

Stability:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

TPM4 is a member of the tropomyosin family. Tropomyosins exist in practically 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 connection with the troponin complex, in the calcium dependent regulation of vertebrate striated muscle contraction.

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