

## TPM2 Human

**Description:** TPM2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 304 amino acids (1-284a.a.) and having a molecular mass of 35.1kDa. TPM2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-076

For research use only.

**Synonyms:** Tropomyosin 2 (beta), DA1, TMSB, DA2B, AMCD1, NEM4, Arthrogyrosis Multiplex Congenital Distal-Type 1, beta-Tropomyosin.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MDAIKKKMQM LKLDKENAID  
RAEQAEADKK QAEDRCKLE EEQQALQKKL KGTEDEVEKY SESVKEAQEK LEQAEKKATD  
AEADVASLNR RIQLVEEELD RAQERLATAL QKLEEAEKAA DESERGMKVI ENRAMKDEEK  
MELQEMQLKE AKHIAEDSDR KYEEVARKLV ILEGELERSE ERAEVAESRA RQLEEEELRTM  
DQALKSLMAS EE

**Purity:** Greater than 90% as determined by SDS-PAGE.

### Formulation:

The TPM2 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0) 1mM DTT, 100mM NaCl and 30% glycerol.

### Usage:

NeoBiolabs 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:

Tropomyosin beta chain isoform 2 is affiliate to the actin filament binding protein family which primarily expressed in slow, type 1 muscle fibers. Mutations in TPM2 can change the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogyrosis syndromes.

### Storage:

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

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