# **PRODUCT INFORMATION**

Expression system E.coli

**Domain** 1-284aa

**UniProt No.** P07951

NCBI Accession No. NP\_998839.1

Alternative Names Tropomyosin beta chain isoform 2, AMCD1, DA1, DA2B, NEM4, TMSB

# **PRODUCT SPECIFICATION**

**Molecular Weight** 

35.1 kDa (304aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

**Concentration** 0.25mg/ml (determined by BCA assay)

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 30% glycerol, 100mM NaCl

**Purity** > 90% 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

Tropomyosin beta chain isoform 2, also known as TPM2, is a member of the actin filament binding protein family which mainly expressed in slow, type 1 muscle fibers. Mutations in this gene can alter the expression of other sarcomeric tropomyosin proteins, and cause cap disease, nemaline myopathy and distal arthrogryposis syndromes. Recombinant human TPM2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



#### **Amino acid Sequence**

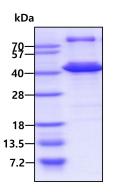
<MGSSHHHHHH SSGLVPRGSH> MDAIKKKMQM LKLDKENAID RAEQAEADKK QAEDRCKQLE EEQQALQKKL KGTEDEVEKY SESVKEAQEK LEQAEKKATD AEADVASLNR RIQLVEEELD RAQERLATAL QKLEEAEKAA DESERGMKVI ENRAMKDEEK MELQEMQLKE AKHIAEDSDR KYEEVARKLV ILEGELERSE ERAEVAESRA RQLEEELRTM DQALKSLMAS EEEYSTKEDK YEEEIKLLEE KLKEAETRAE FAERSVAKLE KTIDDLEETL ASAKEENVEI HQTLDQTLLE LNNL

## **General References**

Hunt CC., et al. (1995) Cytogenet Cell Genet. 71(1):94-5. Tiso N., et al. (1997) Biochem Biophys Res Commun. 13(2):347-50.

## DATA

#### **SDS-PAGE**



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