
Product Data Sheet

Product Name: TPM2 Human
 Cat. No.: GP24865
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Tropomyosin 2 (beta); DA1; TMSB; DA2B; AMCD1; NEM4; Arthrogryposis Multiplex Congenital Distal-Type 1; beta-Tropomyosin.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDAIKKKMQM LKLDKENAID RAEQAEADKK QAEDRCKQLE EEQQALQKKL KGTEDEVEKY SESVKEAQEK LEQAEKKATD AADVASLNR RIQLVEEELD RAQERLATAL QKLEEAEEKAA DESERGMKVI ENRAMKDEEK MELQEMQLKE AKHIAEDSDR KYEEVARKLV ILEGELERSE ERAEVAESRA RQLEELRTM DQALKSLMAS EEEYSTKEDK YEEEIKLLEE KLKEAETRAE FAERSVAKLE KTIDDLEETL ASAKEENVEI HQTLDQTLLE LNNL.		
Formulation	The TPM2 protein solution (0.5mg/ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 1mM DTT, 100mM NaCl and 30% glycerol.		

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 arthrogryposis syndromes.

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.

Background

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 (molecular weight on SDS-PAGE will appear higher). TPM2 is fused to a 20 amino acid His-tag at N-terminus &

Caution: Product has not been fully validated for medical applications. For research use only.

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purified by proprietary chromatographic techniques.

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