

TPM2, 1-284aa, Human, His tag, E.coli

Cat.NO.: TP04285

3th Edition

Synonyms:Tropomyosin beta chain isoform 2, AMCD1, DA1, DA2B, NEM4, TMSB

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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 30% glycerol, 100mM NaCl

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

Sequences:

MGSSHHHHHSSGLVPRGSHMDAIKKKMQLKLDKENAIDRAEQAEADKKQAEDRCKQLEEEQQALQKCLKGTE
DEVEKYSSESVKEAQEKLEQAEEKKATDAEADVASLNRRIQLVEEELDRAQERLATALQLEEAEKAADESERGMKVI
ENRAMKDEEKMELQEMQLKEAKHIAEDSDRKYEEVARKLVILEGELERSEERA EVAESRARQLEEEELRTMDQALKS
LMASEEEYSTKEDKYEIEIKLLEEKLKEAETRAEFAERSVAKLEKTIDDLEETLASAKEENVEIHQTLDTLLELNNL

Purity:> 95% by HPLC

Concentration:0.5 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.