

Product information

TPM3, 1-248aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1368

Full name: Tropomyosin alpha-3 chain

NCBI Accession No.: NP_705935

Synonyms: hscp30, NEM1, OK/SW-cl.5, TM-5, TM3, TM30 TM30nm, TPMsk, TRK

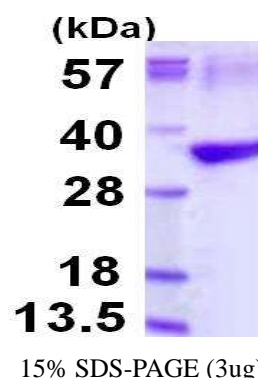
Description: Tropomyosin alpha-3 chain, also known as TPM3, is member of the tropomyosin family of actin-binding proteins involved in the contractile system of striated and smooth muscles and the cytoskeleton of non-muscle cells. Tropomyosins are dimers of coiled-coil proteins that polymerize end-to-end along the major groove in most actin filaments. They provide stability to the filaments and regulate access of other actin-binding proteins. Mutations in this gene result in autosomal dominant nemaline myopathy, and oncogenes formed by chromosomal translocations involving this locus are associated with cancer. Recombinant human TPM3 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, 10% glycerol, 0.1M NaCl

Molecular Weight: 31.6 kDa (272aa), confirmed by MALDI-TOF

Purity: > 90% by SDS - PAGE

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



Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMMAGITT IEAVKRKIQV LQQQADDAEE RAERLQREVE GERRAREQAE AEVASLNRRI QLVEEELDRA
QERLATALQK LEEAEKAADE SERGMKVIEN RALKDEEKME LQEIQKKEAK HIAEEADRYK EEVARKLVII EGDLETEREER AELAESRCRE
MDEQIRLMDQ NLKCLSAEE KYSQKEDKYE EEIKILTDKL KEAETRAEFA ERSVAKLEKT IDDLKDLKC TKEEHLCTQR MLDQTLDDLN
EM

General references:

Ohtsuki I., *et al.* (2002) *J Biochem.* 131:739-743.

Tiso N., *et al.* (1997) *Biochem Biophys Res Commun.* 230:347-350.

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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