

**AR50193PU-N****Human Tropomyosin-3 (TPM3) (1-248, His-tag) - Purified**

<b>Alternate names:</b>	Gamma-tropomyosin, TPM5, Tropomyosin alpha-3 chain, Tropomyosin-5
<b>Quantity:</b>	0.25 mg
<b>Concentration:</b>	0.5 mg/ml (determined by Bradford assay)
<b>Background:</b>	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.
<b>Uniprot ID:</b>	<a href="#">P06753</a>
<b>NCBI:</b>	<a href="#">NP_705935</a>
<b>GeneID:</b>	<a href="#">7170</a>
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >90% by SDS - PAGE <b>Buffer System:</b> 20 mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl
<b>Description:</b>	Recombinant human TPM3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. <b>AA Sequence:</b> MGSSHHHHH SSGLVPRGSH MGSHMAGITT IEAVKRKIQV LQQQADDAEE RAERLQREVE GERRAREQAE AEVASLNRRRI QLVEEELDRA QERLATALQK LEEAEKAADE SERGMKVIEN RALKDDEKME LQEIQLKEAK HIAEEADRKY EEVARKLVII EGDLELTEER AELAESRCRE MDEQIRLMDQ NLKCLSAAEE KYSQKEDKYE EEIKILTDKL KEAETRAEFA ERSVAKLEKT IDDLEDKLLK TKEEHLCTQR MLDQTLDDL N EM <b>Molecular weight:</b> 31.6 kDa (272aa), confirmed by MALDI-TOF
<b>Storage:</b>	Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Ohtsuki I., et al. (2002) J Biochem. 131:739-743. Tiso N., et al. (1997) Biochem Biophys Res Commun. 230:347-350.

Pictures:

