

Recombinant Human Tropomodulin 1, T7-tagged

Cat. No. TMOD1-3002H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TMOD1 protein was expressed in E.coli with T7-tag at the N-terminus. The molecular weight is 40569 Da(359 aa).
Species	Human
Source	E.coli
Description	Tropomodulin-1 is a protein that in humans is encoded by the TMOD1 gene. Human erythrocyte tropomodulin is a 43-kD tropomyosin-regulating protein. It may modulate the association of tropomyosin with the spectrin-actin complex in the erythrocyte membrane skeleton, and thus the viscoelastic properties of erythrocytes. Tropomodulin is associated with the pointed end of the actin filaments. It binds specifically to the N terminus of tropomyosin and blocks the elongation and depolarization of tropomyosin-coated actin filaments.
Sequences of amino acids	1-359 aa
Formulation	10 mM Tris. pH 8.0. 0.1% Triton X-100. 0.002% NaN3. 10mM DTT.
Purity	90%

GENE INFORMATION

Gene Name	TMOD1 tropomodulin 1 [Homo sapiens]
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Synonyms	TMOD; ETMOD; D9S57E; E-Tmod; e-tropomodulin; OTTHUMP00000021743; OTTHUMP00000021744; erythrocyte tropomodulin; tropomodulin-1
Gene ID	7111
mRNA Refseq	NM_003275
Protein Refseq	NP_003266
MIM	190930
UniProt ID	P28289
Chromosome Location	9q22.3
Pathway	Reactome Event:Muscle contraction
Function	actin binding; tropomyosin binding

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