

# Recombinant Human TMOD1 Protein, His-tagged

**Cat. No.** TMOD1-553H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human TMOD1(Pro39~His138) fused with His tag at N-terminal was expressed in E. coli.                                                                                                                                                                                                                                                                                                                   |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | Pro39~His138                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | This gene encodes a member of the tropomodulin family. The encoded protein is an actin-capping protein that regulates tropomyosin by binding to its N-terminus, inhibiting depolymerization and elongation of the pointed end of actin filaments and thereby influencing the structure of the erythrocyte membrane skeleton. Multiple transcript variants encoding the same protein have been found for this gene. |
| <b>Form</b>             | PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.                                                                                                                                                                                                                                                                                                                                            |
| <b>Molecular Mass</b>   | 12.7kDa                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | <1.0EU per 1g (determined by the LAL method)                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | > 98%                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Applications</b>     | Positive Control; Immunogen; SDS-PAGE; WB.<br>If bio-activity of the protein is needed, please check active protein.                                                                                                                                                                                                                                                                                               |

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|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition. |
| <b>Storage</b>        | Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.                                                                                                                                                                                                                 |
| <b>Reconstitution</b> | Reconstitute in PBS or others.                                                                                                                                                                                                                                                                                                               |

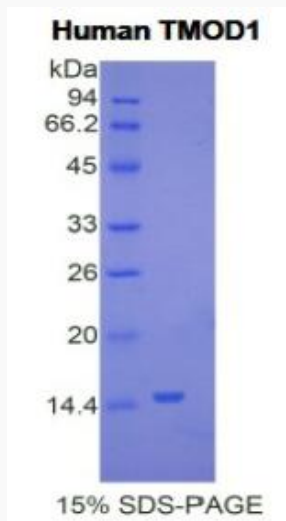
## GENE INFORMATION

|                        |                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TMOD1 tropomodulin 1 [ Homo sapiens ]                                                                                       |
| <b>Official Symbol</b> | TMOD1                                                                                                                       |
| <b>Synonyms</b>        | TMOD1; tropomodulin 1; D9S57E, TMOD; tropomodulin-1; ETMOD; E-Tmod; e-tropomodulin; erythrocyte tropomodulin; TMOD; D9S57E; |
| <b>Gene ID</b>         | 7111                                                                                                                        |
| <b>mRNA Refseq</b>     | NM_001166116                                                                                                                |
| <b>Protein Refseq</b>  | NP_001159588                                                                                                                |
| <b>MIM</b>             | 190930                                                                                                                      |
| <b>UniProt ID</b>      | P28289                                                                                                                      |

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