

## Recombinant Full Length Human Transgelin, His-tagged

**Cat. No.** TAGLN-2572H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant humanTAGLN protein, fused to his-tag at N-terminus was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 24.8 kDa (221aa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>            | 1-201 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Description</b>              | TAGLNis a transformation and shape-change sensitive actin cross-linking/gelling protein that belongs to the calponin family. This protein is expressed abundantly in fibroblasts and smooth muscle. It is involved in calcium interactions and contractile properties of the cell that may contribute to replicative senescence. During embryogenesis, TAGLN is expressed in smooth, cardiac and skeletal muscle, but is restricted during late fetal development and adulthood to all vascular and visceral smooth muscle cells and low levels of expression in heart. It is downregulated in several transformed cell lines, indicating that a reduction of TAGLN expression may be an early indicator of the onset of transformation. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MANKGPSYGM SREVQSKIEK KYDEELEERL<br>VEWIIVQCGP DVGRPDRGRL GFQVWLKNGV ILSKLVNSLY PDGSKPVKVP<br>ENPPSMVFKQ MEQVAQFLKA AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL<br>MALGSLAVTK NDGHYRGDPN WFMKKAQEHK REFTESQLQE GKHVIGLQMG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

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|                      |                                                                                                                                                       |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | SNRGASQAGM TGYGRPRQII S                                                                                                                               |
| <b>Purity</b>        | > 85% by SDS – PAGE.                                                                                                                                  |
| <b>Form</b>          | Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 20% glycerol 1mM DTT.                                                                              |
| <b>Concentration</b> | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Storage</b>       | 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. |

## GENE INFORMATION

|                            |                                                                                                                                                                                               |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | <a href="#">TAGLN transgelin [ Homo sapiens ]</a>                                                                                                                                             |
| <b>Synonyms</b>            | TAGLN; transgelin; SM22; SMCC; TAGLN1; WS3-10; DKFZp686B01212; DKFZp686P11128; SM22-alpha; transgelin variant 2; 22 kDa actin-binding protein; smooth muscle protein 22-alpha; Protein WS3-10 |
| <b>Gene ID</b>             | <a href="#">6876</a>                                                                                                                                                                          |
| <b>mRNA Refseq</b>         | <a href="#">NM_001001522</a>                                                                                                                                                                  |
| <b>Protein Refseq</b>      | <a href="#">NP_001001522</a>                                                                                                                                                                  |
| <b>MIM</b>                 | <a href="#">600818</a>                                                                                                                                                                        |
| <b>UniProt ID</b>          | <a href="#">Q01995</a>                                                                                                                                                                        |
| <b>Chromosome Location</b> | 11q23.2                                                                                                                                                                                       |

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|                 |                                |
|-----------------|--------------------------------|
| <b>Function</b> | actin binding; protein binding |
|-----------------|--------------------------------|

PDB rendering based  
on 1ujo.



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