

# Recombinant human Transgelin/TAGLN protein

Catalog Number: ATGP0602

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-201aa

### UniProt No.

Q01995

### NCBI Accession No.

NP\_001001522

### Alternative Names

WS3-10, Transgelin, TAGLN1, Smooth muscle protein 22-alpha, SMCC, SM22 alpha, SM22

## PRODUCT SPECIFICATION

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### Molecular Weight

24.8 kDa (221aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol 1mM DTT

### Purity

> 85% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

TAGLN is 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

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be an early indicator of the onset of transformation. Recombinant human TAGLN protein, fused to his-tag at N-terminus was expressed in E. coli and purified by using conventional chromatography techniques

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MANKGPSYGM SREVQSKIEK KYDEELEERL VEWIIVQCGP DVGRPDRGRL  
GFQVWLKNGV ILSKLVNSLY PDGSKPVKVP ENPPSMVFKQ MEQVAQLKA AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL  
MALGSLAVTK NDGHYRGDPN WFMKKAQEHK REFTESQLQE GKHVIGLQMG SNRGASQAGM TGYGRPRQII S

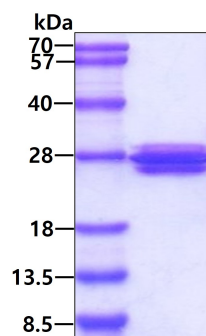
## General References

Kobayashi R., et al. (1994) Biochem Biophys Res Commun. 198(3):1275-80.

Thweatt R., et al. (1992) Biochem Biophys Res Commun. 187(1):1-7.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.