

AR09539PU-N

Human Transgelin (TAGLN) (1-201, His-tag) - Purified

Alternate names:

22 kDa actin-binding protein, SM22, Smooth muscle protein 22-alpha, WS3-10

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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 be an early indicator of the onset of transformation.

Uniprot ID:

[Q01995](#)

NCBI:

[NP_001001522](#)

GenelD:

[6876](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >85% by SDS – PAGE

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Description:

Recombinant human TAGLN protein, fused to his-tag at N-terminus was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SSGLVPRGSH MANKGPSYGM SREVQSKIEK KYDEELEERL VEWIIVQCGP
DVGRPDGRGL GFQVWLKNGV ILSKLVNSLY PDGSKPVKVP ENPPSMVFKQ MEQVAQFLKA
AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL MALGSLAVTK NDGHYRGDPN WFMKKAQEHK
REFTESQLQE GKHVIGLQMG SNRGASQAGM TGYGRPRQII S

Molecular weight: 24.8 kDa (221aa) confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

Pictures:

Recombinant human TAGLN, 1-201 aa,
His-tagged

