

Recombinant Full Length Human Transgelin, His-tagged

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

SPECIFICATION

Product Overview Recombinant humanTAGLN protein, fused to his-tag at N-terminus was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 24.8 kDa (221aa).

Species Human

Source E.coli

ProteinLength 1-201 a.a.

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 be an early indicator of the onset of transformation.

Sequences Of Amino Acids MGSSHHHHHH SGLVPRGSH MANKGPSYGM SREVQSKIEK KYDEELEERL
VEWIIVQCGP DVGRPDRGRL GFQVWLKNGV ILSKLVNSLY PDGSKPVKVP
ENPPSMVFKQ MEQVAQFLKA AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL
MALGSLAVTK NDGHYRGDPN WFMKKAQEHK REFTESQLQE GKHVIGLQMG

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SNRGASQAGM TGYGRPRQII S

Purity > 85% by SDS – PAGE.

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

Concentration 1 mg/ml (determined by Bradford assay).

Storage 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

Gene Name TAGLN transgelin [Homo sapiens]

Synonyms 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

Gene ID 6876

mRNA Refseq NM_001001522

Protein Refseq NP_001001522

MIM 600818

UniProt ID Q01995

Chromosome Location 11q23.2

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Function

actin binding; protein binding

PDB rendering based
on 1ujo.



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