

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 <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 24.8 kDa (221aa).
Species	Human
Source	E.coli
ProteinLength	1-201 a.a.
Description	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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH 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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