

TAGLN, 1-201aa, Human, His tag, E.coli

Cat.NO.: TP04138

3th Edition

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

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

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDRGRGLGFQV
WLKNGVILSKLVNSLYPDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEGKDMAAVQRT
LMALGSLAVTKNDGHYRGDPNWFMKKAQEHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIS

Purity:> 95% by HPLC

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

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.