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## Product Data Sheet

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Product Name: TAGLN Human  
 Cat. No.: GP24772  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SM22; SMCC; TAGLN1; WS3-10; Transgelin; Smooth muscle protein 22-alpha; SM22-alpha; TAGLN; DKFZp686B01212; DKFZp686P11128.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MANKGPSYGM SREVQSKIEK KYDEELEERL VEWIIVQCGP DVGRPDRGRL GFQVWLKNGV ILSKLVNSLY PDGSKPVKVP ENPPSMVFKQ MEQVAQFLKA AEDYGVIKTD MFQTVDLFEG KDMAAVQRTL MALGSLAVTK NDGHYRGDPN WFMKKAQEHK REFTESQLQE GKHVIGLQMG SNRGASQAGM TGYGRPRQII S.		
Formulation	TAGLN Human solution containing 20mM Tris-HCl pH-7.5, 1mM DTT & 20% glycerol.		

### Introduction

TAGLN is a transformation and form-change responsive actin cross-linking/gelling protein that is part of the calponin family. TAGLN is expressed abundantly in fibroblasts and smooth muscle. TAGLN participates in calcium interactions and contractile properties of the cell that contribute to replicative senescence. Throughout embryogenesis, TAGLN is expressed in smooth, cardiac and skeletal muscle, but is limited during late fetal growth and adulthood to all vascular and visceral smooth muscle cells and low levels of expression in heart. TAGLN is downregulated in several transformed cell lines, showing that a decrease of TAGLN expression is an premature indicator of the onset of transformation.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

TAGLN Recombinant E.coli produced in E.Coli is a single, non-glycosylated polypeptide chain containing 221 amino acids (1-201 a.a.) and having a molecular mass of 24.8 kDa. The TAGLN is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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