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TAGLN Human

Catalog #:PRPS-858

For research use only.

Description: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.

Synonyms:SM22, SMCC, TAGLN1, WS3-10, Transgelin, Smooth muscle protein 22-alpha, SM22-alpha, TAGLN, DKFZp686B01212, DKFZp686P11128.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

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.

Purity: Greater than 85.0% as determined by SDS-PAGE.

Formulation:
TAGLN Human solution containing 20mM Tris-HCl pH-7.5, 1mM DTT & 20% glycerol.

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.

Usage:
NeoBiolab's products are furnished forLABORATORY RESEARCHUSEONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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. Throμghout 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.

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