

Recombinant Human TAGLN Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. TAGLN-5433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TAGLN MS Standard C13 and N15-labeled recombinant protein (NP_003177) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a shape change and transformation sensitive actin-binding protein which belongs to the calponin family. It is ubiquitously expressed in vascular and visceral smooth muscle, and is an early marker of smooth muscle differentiation. The encoded protein is thought to be involved in calcium-independent smooth muscle contraction. It acts as a tumor suppressor, and the loss of its expression is an early event in cell transformation and the development of some tumors, coinciding with cellular plasticity. The encoded protein has a domain architecture consisting of an N-terminal calponin homology (CH) domain and a C-terminal calponin-like (CLIK) domain. Mice with a knockout of the orthologous gene are viable and fertile but their vascular smooth muscle cells exhibit alterations in the distribution of the actin filament and changes in cytoskeletal organization.
Molecular Mass	22.4 kDa
AA Sequence	MANKGPSYGMSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDGRGLGFQVW LKNGVILSKLVNSLYPDGSKPKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTD MF

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

QTVDLFEGKDMAAVQRTLALGSLAVTKNDGHYRGDPNWFMKKAQEHKREFTES
QLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIISTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name TAGLN transgelin [Homo sapiens (human)]

Official Symbol TAGLN

Synonyms TAGLN; transgelin; DKFZp686P11128; SM22; SM22 alpha; SMCC; TAGLN1; transgelin variant 2; WS3 10; SM22-alpha; 22 kDa actin-binding protein; smooth muscle protein 22-alpha; WS3-10; DKFZp686B01212;

Gene ID 6876

mRNA Refseq NM_003186

Protein Refseq NP_003177

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MIM 600818**UniProt ID** Q01995**SDS-PAGE** Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA