

Product datasheet for PH315789

SM22 alpha (TAGLN) (NM_003186) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TAGLN MS Standard C13 and N15-labeled recombinant protein (NP_003177)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215789
Predicted MW:	22.4 kDa
Protein Sequence:	>RC215789 representing NM_003186 Red=Cloning site Green=Tags(s) MANKGPSYGMRSREVQSKIEKKYDEELEERLVEWIIVQCGPDVGRPDRGRLGFQVWLKNGVILSKLVNSLY PDGSKPVKVPENPPSMVFKQMEQVAQFLKAAEDYGVIKTDMFQTVDLFEGKDMAAVQRTLALGSLAVTK NDGHYRGDPNWFMKKAQECHKREFTESQLQEGKHVIGLQMGSNRGASQAGMTGYGRPRQIIIS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_003177
RefSeq Size:	1177
RefSeq ORF:	603
Synonyms:	SM22; SM22-alpha; SMCC; TAGLN1; WS3-10
Locus ID:	6876
UniProt ID:	Q01995 , Q5U0D2



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Cytogenetics: 11q23.3

Summary: 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. [provided by RefSeq, Aug 2017]

Product images:



Coomassie blue staining of purified TAGLN protein (Cat# [TP315789]). The protein was produced from HEK293T cells transfected with TAGLN cDNA clone (Cat# [RC215789]) using MegaTran 2.0 (Cat# [TT210002]).