

Active Recombinant Human VTN/TMSB4X protein

Cat. No. VTN-95H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human vitronectin (62–398aa) domain and full-length human Thymosin-b4 fusion protein cDNA were expressed in E. coli
Species	Human
Source	E.coli
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, arginine, DTT and Glycerol.
Bio-activity	When coated onto tissue culture plastic, VTB fusion protein promotes one half maximal attachment of human cardiomytes cells in serum-free medium at < 0.1 g / cm ² . Maximum attachment should occur at approximately 0.5 g / cm ² .
AA Sequence	MTRGDVFTMPEDYTVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVL KPEEEAPAPEVGASKPEGID SRPETLHPGRPQPPAEEELCSGKPFDAFTDLKNGSL FAFRGQYCYELDEKAVRPGYPKLIRDVWGIEGPIDAAFT RINCQGKTYLFKGSQYW RFEDGVLDPDYPRNISDGFDPDNVDAALALPAHSYSGRERVYFFKKGKQYWEYQF QH QPSQEECEGSSLSAVFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRD WHGVPGQVDAAMAGRIYISGMAP RPSLAKKQRFHRNRKGYRSQRGHSRGRNQ NSRRPSRGGGGSGGGGSNIEFSDKPDMAEIEKFDKSKLKKTTETQE KNPLPSKETIE QEQAGES
Endotoxin	< 30 EU per 1 g of the protein by the LAL method

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Purity	>95% by SDS-PAGE
Applications	1. When coated at 0.5-1 ug/ ml per cm ² and combined with cardiomyocytes culture medium, this recombinant protein can be used as matrix protein for benefiting cardiomyocytes differentiation in vitro.
Storage	Keep at -20centigrade for long term storage. Product is stable at 4 centigrade for at least 7 days.

GENE INFORMATION

Gene Name	VTN vitronectin [Homo sapiens]
Official Symbol	VTN
Synonyms	VTN; vitronectin; vitronectin (serum spreading factor, somatomedin B, complement S protein); complement S protein; serum spreading factor; somatomedin B; VN; epibolin; S-protein; complement S-protein; serum-spreading factor; V75; VNT;
Gene ID	7448
mRNA Refseq	NM_000638
Protein Refseq	NP_000629
MIM	193190
UniProt ID	P04004
Chromosome Location	17q11.2

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Pathway

ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; FOXA1 transcription factor network, organism-specific biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem

Function

extracellular matrix binding; heparin binding; integrin binding; polysaccharide binding; scavenger receptor activity;

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