

Active Recombinant Human VTN protein, Tag Free

Cat. No. VTN-10966H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human Truncated Vitronectin Protein, premium grade is expressed from E. coli cells. It contains AA Val 62-Leu 478 (Accession # P04004). Predicted N-terminus: Met
Species	Human
Source	E.coli
ProteinLength	62-478 aa
Description	Vitronectin is also known as S-protein, VN, VTN, V75. Vitronectin, a multifunctional glycoprotein, is involved in coagulation, inhibition of the formation of the membrane attack complex (MAC), cell adhesion and migration, wound healing, and tissue remodeling. The primary cellular source of vitronectin is hepatocytes. Blocking of Hic(a member of the pneumococcal surface protein C (PspC) family) by specific antiserum or genetic deletion significantly reduced pneumococcal binding to soluble and immobilised vitronectin and to Factor H, respectively. In addition, Vitronectin interact with glycosaminoglycans and proteoglycans. Is recognized by certain members of the integrin family and serves as a cell-to-substrate adhesion molecule. Inhibitor of the membrane-damaging effect of the terminal cytolytic complement pathway.
Form	Supplied as 0.2 µm filtered solution in PBS, 0.15 M Arginine, 0.5 mM EDTA, 250 mM N-Acetyl-L-cysteine, pH7.4 with glycerol as protectant.
Specificity	Host Cell Protein: <0.5

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	ng/μg of protein tested by ELISA. Host Cell DNA: <0.02 ng/μg of protein tested by qPCR. Sterility: Negative Mycoplasma: Negative
Bio-activity	Human Vitronectin, premium grade supported the adhesion of iPSC. The typical EC50 for this effect is 1414 ng/mL.
Molecular Mass	The protein has a calculated MW of 47.6 kDa. The protein migrates as 46 kDa±3 kDa and 53 kDa±3 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE).
Endotoxin	Less than 0.01 EU/μg by the LAL method/rFC method.
Purity	>95% as determined by SDS-PAGE.
Storage	This product is stable after storage at: The product MUST be stored at -70 centigrade or lower upon receipt; -70 centigrade for 3 years under sterile conditions. Please avoid repeated freeze-thaw cycles.
Concentration	0.2 mg/mL
Shipping	This product is supplied and shipped with dry ice, please inquire the shipping cost.

GENE INFORMATION

Gene Name	VTN vitronectin [Homo sapiens (human)]
Official Symbol	VIN
Synonyms	VTN; vitronectin; VN; V75; VNT; vitronectin; complement S-protein; epibolin; serum spreading factor; somatomedin B

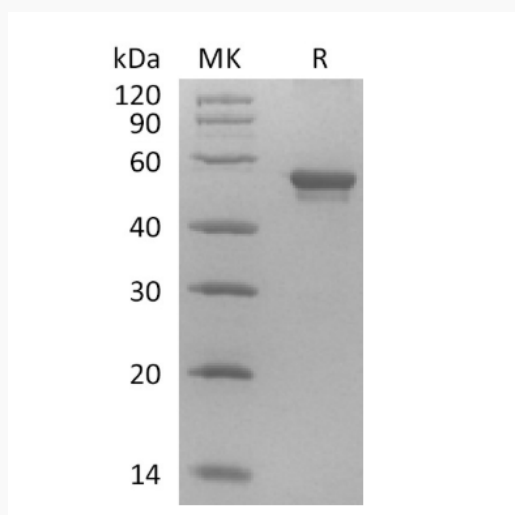
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Gene ID	7448
mRNA Refseq	NM_000638
Protein Refseq	NP_000629
MIM	193190
UniProt ID	P04004

SDS-PAGE.



Greater than 95% as determined by reducing SDS-PAGE.

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