

Active Recombinant Human Vitronectin Protein, His tagged

Cat. No. VTN-05H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human Vitronectin protein (20-478 aa), fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
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Species	Human
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Source	Insect Cells
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ProteinLength	20-478 aa
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Description	The protein encoded by this gene functions in part as an adhesive glycoprotein. Differential expression of this protein can promote either cell adhesion or migration as it links cells to the extracellular matrix through a variety of ligands. These ligands include integrins, plasminogen activator inhibitor-1, and urokinase plasminogen activator receptor. This secreted protein can be present in the plasma as a monomer or dimer and forms a multimer in the extracellular matrix of several tissues. This protein also inhibits the membrane-damaging effect of the terminal cytolytic complement pathway and binds to several serpin serine protease inhibitors. This protein can also promote extracellular matrix degradation and thus plays a role in tumorigenesis. It is involved in a variety of other biological processes such as the regulation of the coagulation pathway, wound healing, and tissue remodeling. The heparin-binding domain of this protein give it anti-microbial properties. It is also a lipid binding protein that forms a principal component of high density lipoprotein.
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 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

Form	Liquid
AASequence	DQESCKGRCTEGFNVDKKCQCDELCSYYQSCCTDYTAECKPQVTRGDVFTMPED EYTVYDDGEEKNNATVHEQVGGPSLTSDLQAQSKGNPEQTPVLKPEEEAPAPEVG ASKPEGIDSRPETLHPGRPQPPAEEELCSGKPFDAFTDLKNGSLFAFRGQYCYELD EKAVRPGYPKLIRDVWGIEGPIDAAFRINCQGKTYLFKGSQYWRFEDGVLDPDYPR NISDGFDPGIPDNVDAALALPAHSYSGRERVYFFKGKQYWEYQFQHQPSSQEECEGS SLSAVFEHFAMMQRDSWEDIFELLFWGRTSAGTRQPQFISRDWHGVPGQVDAAMA GRIYISGMAPRPSLAKKQRFRRHRNRKGYRSQRGHSRGRNQNSRRPSRATWLSLFS SEESNLGANNYDDYRMDWLVPATCEPIQSVFFFSGDKYYRVNLRTRRVDTVDPYP RSIAQYWLGCAPAGHL
Molecular Mass	53.3 kDa
Bio-activity	Measured by the ability of the immobilized protein to support the adhesion of B16-F1 mouse melanoma cells. When cells are added to human VTN coated plates 5 µg/mL. This effect is more to 50%.
Endotoxin	< 0.1 EU/µg of protein determined by LAL method
Purity	> 90% by SDS-PAGE
Application	SDS-PAGE, Bioactivity
Note	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.

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Storage Buffer Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Concentration 0.25 mg/mL (determined by Bradford assay)

GENE INFORMATION

Gene Name VTN vitronectin [Homo sapiens (human)]

Official Symbol VTN

Synonyms VTN; vitronectin; VN; V75; VNT; vitronectin; complement S-protein; epibolin; serum spreading factor; somatomedin B

Gene ID 7448

mRNA Refseq NM_000638

Protein Refseq NP_000629

MIM 193190

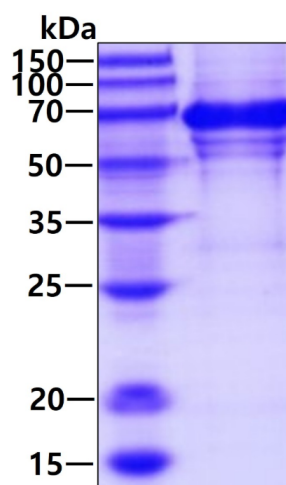
UniProt ID P04004

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SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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