

RP01385

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# Recombinant Human Vitronectin/V75/VTN Protein

Catalog No.: RP01385

Recombinant

## Sequence Information

Species	Gene ID	Swiss Prot
Human	7448	P04004

### Tags

C-His

### Synonyms

V75; VN; VNT;VTN;VN;VNT

## Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

### Endotoxin

<1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Background

Vitronectin, also known as VTN, is a member of the pexin family. It is an abundant glycoprotein found in serum the extracellular matrix and promotes cell adhesion and spreading. Vitronectin is a secreted protein and exists in either a single chain form or a cleaved, two chain form held together by a disulfide bond. Vitronectin is a plasma glycoprotein implicated as a regulator of diverse physiological process, including blood coagulation, fibrinolysis, pericellular proteolysis, complement dependent immune responses, and cell attachment and spreading. Because of its ability to bind platelet glycoproteins and mediate platelet adhesion and aggregation at sites of vascular injury, vitronectin has become an important mediator in the pathogenesis of coronary atherosclerosis. As a multifunctional protein with a multiple binding domain, Vitronectin interacts with a variety of plasma and cell proteins. Vitronectin binds multiple ligands, including the soluble vitronectin receptor. It may be an independent predictor of adverse cardiovascular outcomes following acute stenting. Accordingly, Vitronectin is suggested to be involved in hemostasis, cell migration, as well as tumor malignancy.

## Basic Information

### Description

Recombinant Human Vitronectin/V75/VTN Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asp20-Leu478) of human Vitronectin/VTN (Accession #NP\_000629.3) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

Measured by the ability of the immobilized protein to support the adhesion of B16-F1 mouse melanoma cells. When  $5 \times 10^4$  cells/well are added to Vitronectin coated plates (5 μg/mL with 100 μL/well), approximately >85% will adhere after 30 minutes at 37 °C.

### Storage

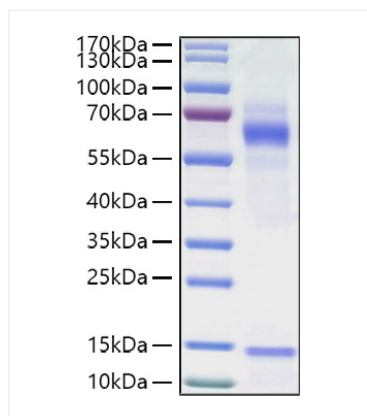
Store the lyophilized protein at -20°C to -80°C for long term. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Contact

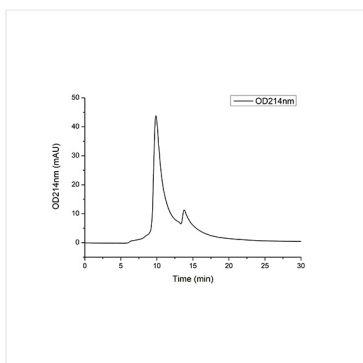


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## Validation Data



Recombinant Human Vitronectin/V75/VTN Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 14 kDa.



The purity of Human Vitronectin/VTN Protein (Cat.RP01385) was greater than 90% as determined by SEC-HPLC.