



Synonym

VTN, V75, VN, Vitronectin, S-protein, Serum-spreading factor

Source

Human Vitronectin Protein, Tag Free (VIN-H52H3) is expressed from human 293 cells (HEK293). It contains AA Asp 20 - Leu 478 (Accession # [P04004](#)).

Predicted N-terminus: Asp 20

Molecular Characterization

Vitronectin(Asp 20 - Leu 478)
P04004

This protein carries no "tag".

The protein has a calculated MW of 52.3 kDa. The protein migrates as 55-65 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

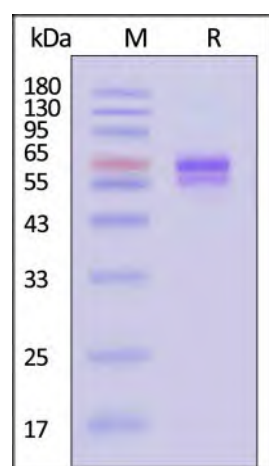
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

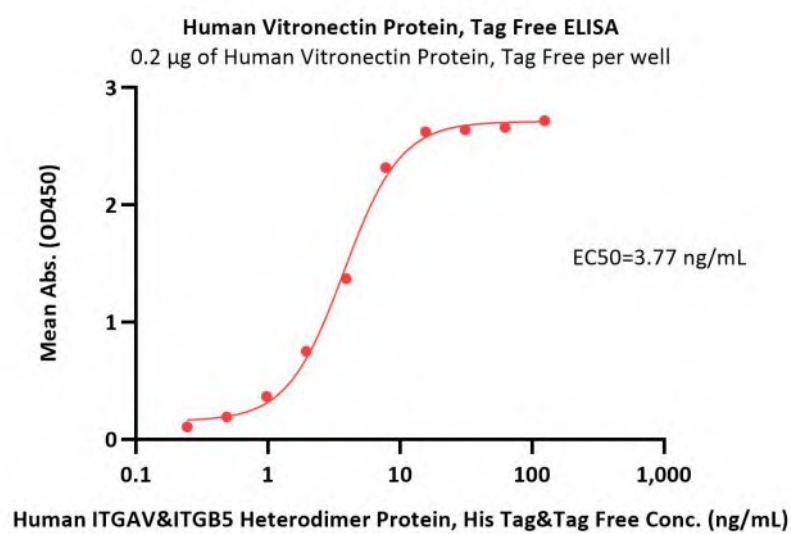


Human Vitronectin Protein, Tag Free on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

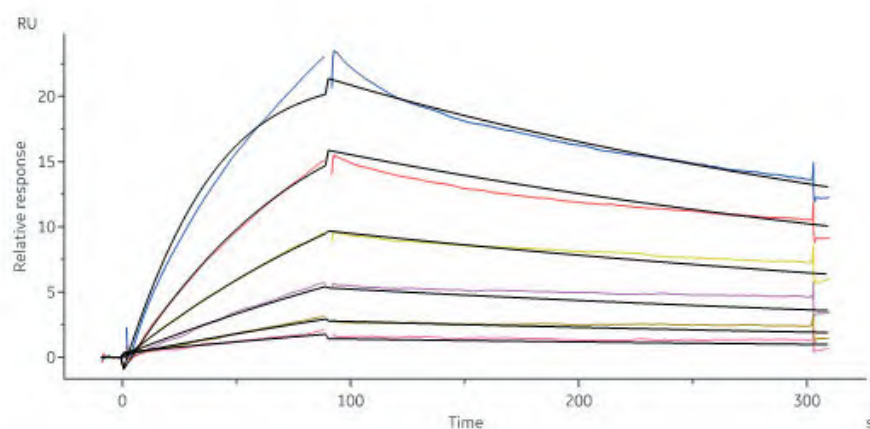
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Immobilized Human Vitronectin Protein, Tag Free (Cat. No. VIN-H52H3) at 2 µg/mL (100 µL/well) can bind Human ITGAV&ITGB5 Heterodimer Protein, His Tag&Tag Free (Cat. No. IT5-H52W5) with a linear range of 0.2-8 ng/mL (QC tested).

Bioactivity-SPR



Human ITGAV&ITGB3 Heterodimer Protein, His Tag&Tag Free IT3-H52E3 (Cat. No. IT3-H52E3) immobilized on CM5 Chip can bind Human Vitronectin Protein, Tag Free (Cat. No. VIN-H52H3) with an affinity constant of 74.1 nM as determined in a SPR assay (Biacore 8K) (Routinely tested).

Background

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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