

RP02818

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Recombinant Mouse Vitronectin/V75/VTN Protein

Catalog No.: RP02818

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 Cells	22370	P29788

Tags

C-His

Synonyms

V75; VN; VNT;VTN;VN;VNT

Product Information

Source	Purification
HEK293 Cells	≥ 85 % as determined by SDS-PAGE.

Endotoxin

< 1 EU/μg of the protein by LAL method.

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.

Contact

 www.abclonal.com

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 Mouse Vitronectin/V75/VTN Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Asp20-Lys478) of mouse Vitronectin/V75/VTN (Accession #NP_035837.1) fused with a 6×His 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 5×10⁴ cells/well are added to Vitronectin coated plates (5 μg/mL with 100 μL/well), approximately >80% will adhere after 30 minutes

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Storage

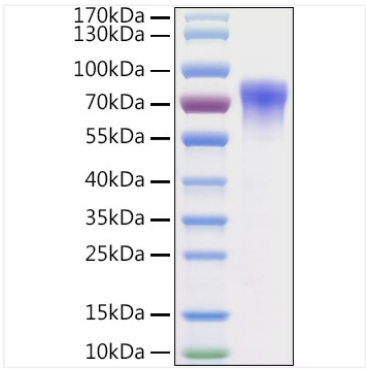
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

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.

* For your safety and health, please wear a lab coat and disposable gloves when handling.

Validation Data



Recombinant Mouse
Vitronectin/V75/VTN Protein was
determined by SDS-PAGE under
reducing conditions with Coomassie
Blue.