

Recombinant Mouse Vitronectin/V75/VTN Protein

Catalog No.: RP02818

Sequence Information

Species **Gene ID**
Mouse 22370

Swiss Prot **Tags**
P29788 C-His

Synonyms
V75, VN, VNT, VTN, VN, VNT

Product Information

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

Calculated MW **Observed MW**
53.59 kDa 75–85 kDa

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.

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.

Activity

Measured by the ability of the immobilized protein to support the adhesion of B16-F1 mouse melanoma cells. When 5×10^4 cells/well are added to Vitronectin coated plates (5 μg/mL with 100 μL/well), approximately >80% will adhere after 30 minutes

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

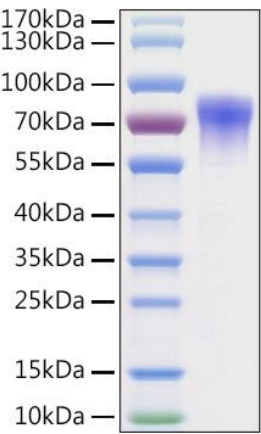
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Validation Data



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