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Datasheet for ABIN7536595
Vitronectin Protein (VTN) (His tag)

Overview

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|-------------------------------|--|
| Quantity: | 100 µg |
| Target: | Vitronectin (VTN) |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This Vitronectin protein is labelled with His tag. |

Product Details

| | |
|--------------|--|
| Purpose: | Recombinant Mouse Vitronectin/V75/VTN Protein |
| Sequence: | DQESCKGRCT QGFMASKKCQ CDELCTYYQS CCADYMEQCK PQVTRGDVFT MPEDDYWSYD YVEEPKNNTN TGVQPENTSP PGDLNPRTDG TLKPTAFLDP EEQPSTPAPK VEQQEILRP DTTDQGTPEF PEEELCSGKP FDAFTDLKNG SLFAFRGQYC YELDETAVRP GYPKLIQDVW GIEGPIDAAF TRINCQGKTY LFKGSQYWRF EDGLVDPGYP RNISEGFSGI PDNVDAAFAL PAHRYSGRER VYFFKKGKQYW EYEFQQQPSQ EECEGSSLSA VFEHFALLQR DSWENIFELL FWGRSSDGAR EPQFISRNWH GVPKGKVAAM AGRIYVTGSL SHSAQAKKQK SKRRSRKRYR SRRRGRGHRS QSSNSRRSSR SIWFSLFSSE ESGLGTYNMY DYDMDWLVPA TCEPIQSVYF FSGDKYYRVN LRTRRVDSVN PPYPRSIAQY WLGCPSTSEK |
| Specificity: | Asp20-Lys478 |
| Purity: | > 85 % by SDS-PAGE. |
| Sterility: | 0.22 µm filtered |

Product Details

Endotoxin Level: <1EU/μg

Biological Activity Comment: Measured by the ability of the immobilized protein to support the adhesion of DU145 human prostate carcinoma cells. When cells are added to mouse Vitronectin coated plates (10 μg/mL and 100 μL/well), > 60% cells will adhere specifically after 30 minutes at 37 °C.

Target Details

Target: Vitronectin (VTN)

Alternative Name: Vitronectin/V75/VTN ([VTN Products](#))

Background: Description: 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.

Name: V75, VN, VNT,VTN,VN,VNT

Gene ID: 22370

UniProt: [P29788](#)

Pathways: [Autophagy](#), [Smooth Muscle Cell Migration](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile

Handling

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.

Concentration: 1.45 mg/mL

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

Storage: -20 °C, -80 °C

Storage Comment: Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.