

Mouse Vitronectin / VTN Protein (His Tag)

Catalog Number: 50585-M08H



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

AI256434; Vn

Protein Construction:

A DNA sequence encoding the mouse vitronectin (NP_035837.1) (Met 1-Lys 478) was expressed, with a polyhistidine tag at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: > 85 % as determined by SDS-PAGE

Bio Activity:

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.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Asp 20

Molecular Mass:

The secreted recombinant mouse vitronectin consists of 470 amino acids and has a predicted molecular mass of 54.2 kDa. In SDS-PAGE under reducing conditions, the apparent molecular mass of mvitronectin is approximately 75-85 kDa due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

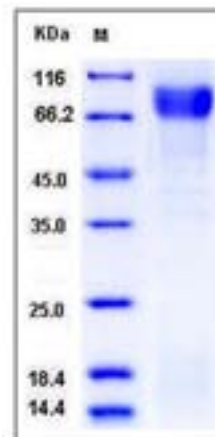
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein 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.

References

- 1.Ekmeki OB, *et al.* (2006) Vitronectin in atherosclerotic disease. *Clin Chim Acta.* 368(1-2): 77-83.
- 2.Derer W, *et al.* (2009) Vitronectin concentrations predict risk in patients undergoing coronary stenting. *Circ Cardiovasc Interv.* 2(1): 14-9.
- 3.Heyman L, *et al.* (2010) Mesothelial vitronectin stimulates migration of ovarian cancer cells. *Cell Biol Int.* 34(5): 493-502.

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