BioVendor Laboratory Medicine, Inc.

Fibronectin, Human purified protein

Product Data Sheet

Cat. No.: RP1724480200 – 200 ug
Cat. No.: RP1724481000 – 1mg

Introduction:

Plasma fibronectin level is elevated in severe coronary artery disease. Increased plasma fibronectin levels are related with venous thromboembolism (VTE) particularly in males, and extend the probable association between biomarkers and risk factors for arterial atherothrombosis and VTE. Fibronectin plays a role in several cellular processes, including tissue repair, embryogenesis, blood clotting, and cell migration/adhesion. Fibronectin consists in two main forms: 1) as an insoluble glycoprotein dimer that serves as a linker in the etracellular matrix and 2) as a soluble disulphide linked dimer found in the plasma. The plasma form is produced by hepatocytes, and the ECM form is synthesized by fibroblasts, chondrocytes, endothelial cells, macrophages, as well as certain epithelial cells.
Fibronectin alos takes part as a general cell adhesion molecule by anchoring cells to collagen or proteoglycan substrates. Fibronectin organizes cellular interaction with the ECM by binding to different components of the extracellular matrix and to membrane-bound Fibronectin receptors on cell surfaces.

Source:

Human Plasma

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

The Fibronectin was lyophilized from a concentrated 1mg/ml solution containing 0.05M Tris HCl pH-7.5 and 0.1M NaCl.

Solubility:

Purified fibronectin has a tendency to form insoluble aggregates upon reconstitution. We suggest to reconstittue the 1mg Fibronectin with a chaotropic agent such as urea at room temperature at a concentration of 0.2mg/ml using sterile water.
Let stand 1-2 hours.

Stability:

Lyophilized Fibronectin although stable at room temperature for 1 week, should be stored desiccated below -18°C.
Upon reconstitution Fibronectin should be stored at 4°C between 2-7 days and for future use below -18°C.
Please prevent freeze-thaw cycles.

Purity:

Greater than 95.0% as determined by analysis by SDS-PAGE.

BioVendor Laboratory Medicine, Inc., Palackeho 56, 612 00 Brno, Czech Republic
Phone: +420-5-49211455 Fax: +420-5-49211465 e-mail: info@biovendor.com http://www.biovendor.com

BioVendor GmbH, Im Neuenheimer Feld 581, D-69120 Heidelberg, Germany
Phone.: +49-6221-433 9100 Fax: +49-6221-433 9111 e-mail: roth@biovendor.com

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BioVendor LLC, 1463 Sand Hill Road, Suite 227, Candler, NC 28715, USA
Phone: 828-670-7807, 800-404-7807 Fax: 828-670-7809 e-mail: infoUSA@biovendor.com

Cell Culture Application:

Fibronectin is useful for the induction of cell attachment to a variety of surfaces including plastic and glass tissue culture labware, petri dishes, coverslips, microcarrier beads, etc. Fibronectin is useful for growth and maintenance of cells in low serum conditions. In general, the reconstituted fibronectin should be diluted with sterile physiological saline or serum-free medium to a concentration of 10-50ug/ml. The plates are treated with the solution, at room temperature 1-2 hours, the supernatant removed and the plates rinsed with fresh media or buffer. Growth media is then added and the coated plates seeded with a suspension of freshly harvested cells. Care should be taken to inactivate serum proteases used in the preparation of the cells, since fibronectin is very sensitive to proteolysis. Optimum concentration of fibronectin depends on the types of cell and the particular surface used. Generally, use 1-5ug/cm² of growth surface.

Usage:

BioVendor's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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