

## 32-13235: Fribronectin Recombinant

### Alternative Name :

Fibronectin takes part in several cellular processes, including tissue repair, embryogenesis, blood clotting, and cell migration/adhesion. 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 consists in 2 main forms: 1) as an insoluble glycoprotein dimer that serves as a linker in the extracellular 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 also 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.

### Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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Fibronectin Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 574 amino acids and having a molecular mass of 62.6kDa. The Fribronectin is purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 20 µg / 100 µg

**Purification :** Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Content :** Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 150 mM NaCl, with 5 % Trehalose and 0.02 % Tween-20.

It is recommended to reconstitute the lyophilized Fribronectin in sterile 18M Omega -cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

**Storage condition :** Lyophilized Fribronectin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Fribronectin should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.