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## Product Data Sheet

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Product Name: Fibronectin Recombinant  
 Cat. No.: GP26288  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.

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

Formulation 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.

### Introduction

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.

### Biological Activity

Was measured by its ability to support cell attachment and spreading when used as a substratum for cell culture. The recommended concentration in this application for this effect is typically 1-5 μg/cm<sup>2</sup>. Fibronectin can also be added to the media to support cell spreading at a concentration of 0.5-50 μg/ml. Optimal concentrations will need to be

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determined for individual user applications.

### Stability

Lyophilized Fibronectin although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Fibronectin should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

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 Fibronectin is purified by proprietary chromatographic techniques.

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