

## PRODUCT DATASHEET

### Fibronectin Human, E.coli Recombinant

**Cat. No.:** RP17226211MG  
**Type:** Recombinant protein  
**Size:** 1 mg  
**Source:** E. coli  
**Species:** Human

#### Description

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.

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.

#### Other names

Cold insoluble globulin, FINC, LETS, MSF, FN

#### Introduction to the molecule

Fibronectin is an ubiquitous extracellular glycoprotein that exists in a soluble form in body fluids and in an insoluble form in the extracellular matrix. It plays a major role in many important physiological processes, such as embryogenesis, wound healing, hemostasis and thrombosis. Fibronectin is secreted as a dimer with a monomer molecular weight of 220–250 kDa. It is synthesized by, and present around, fibroblasts, endothelial cells, chondrocytes, glial cells, and myocytes. Fibronectin's importance during cancer progression has further been shown. It represents an active element in the process of T cell activation in the immune cascade triggered by organ transplantation.

#### Research topic

Animal studies, Extracellular matrix, Oncology, Transplantation

#### Purity

Greater than 95.0%

#### 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.

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**Reconstituion:**

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

**Shipping**

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

**Storage, Stability/Shelf Life**

Lyophilized Fibronectin although stable at room temperature for 3 weeks, 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.

**Applications**

Cell culture and/or animal studies, In vitro

**Note**

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

