

## Human Fibronectin Solution

Akron Catalog # AK9715

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### Products Description:

Fibronectin is an attachment factor that facilitates the attachment and cytoplasmic spreading of all types of anchorage-dependent cells. Fibronectin is responsible for cell adhesion and migration processes including embryogenesis, wound healing, blood coagulation, host defense, and metastasis.

Fibronectin is a cell surface-associated glycoprotein, high molecular weight, soluble, disulfide-linked dimer. It is an extracellular matrix (ECM) protein found in abundance in blood, connective tissues and other provisional matrices while demonstrating functions in both cell-to-cell and cell-to-matrix interactions. Fibronectin functions not only as a general cell adhesion molecule but also as a modulator by binding between cell surfaces and the ECM via a central cell-binding domain known simply as RGD (Arg-Gly-Asp). It appears that the RGD domain serves to activate and align the Fibronectin interface and a synergy site provides the mechanical strength to the bond.

Fibronectin is particularly useful for the culture of cells that are not capable of synthesizing their own biomatrix or when culturing cells in serum-free medium. It is a clear sterile solution containing fibronectin obtained by affinity purification on gelatin-sepharose from human plasma. This solution contains buffer salts. Normal attachment, growth and development of many cell types are dependent on attachment factors and extracellular matrix (ECM) components.

**Product Origin:** Human Fibronectin Solution is manufactured exclusively from Human Plasma. Human Plasma (single donors) are tested for HB<sub>s</sub>AG-, HIV-, and HCV- antibodies and found negative.

**Packaging:** 1ml  
5ml  
Bulk upon request

### Specifications:

- Appearance: Clear liquid
- Source: Human Plasma (Single Donors)
- Concentration: 1mg/ml
- Sterile solution
- pH 7.0-8.0
- Identification: A major single band of approx. 220,000 daltons is evident.

## Storage & Preventative Measure:

2-8°C for up to 6 months. If entire amount of material is not to be used immediately, transfer into appropriate aliquots and store at -20°C for long term storage. AVOID MULTIPLE FREEZE-THAW CYCLES. \*\*DO NOT AGITATE OR SWIRL\*\*

## Advantages:

- Rapid attachment
- High plating and cloning efficiencies
- Good proliferation, high saturation density
- Lower requirements for serum and added growth factors
- Better response to physiologically occurring hormones, expression of differentiated functions
- Cells have longer life span, flattening and morphological changes, and improved plating consistency

## Characteristics of Human Fibronectin:

- Human-derived
- Sterile-filtered and cell culture tested
- Suitable for cell culture
- Long-term storage when handled and stored properly under defined conditions

## Research Application:

- ELISA
- Immunoblotting
- Cell culture substratum
- Stem cell research

## Related Products:

- Stem Cell Booster (**AK9751**)
- Human Fibrinogen (**AK9026**)
- Bovine Fibrinogen (**AK9039**)
- Human Vitronectin (**AK9773**)
- Human Transferrin APO (**AK3008**)
- Human Transferrin HOLO (**AK3124**)
- Bovine Transferrin APO (**AK8227**)
- Bovine Transferrin HOLO (**AK8204**)
- Bovine Serum Albumin (**AK1391**)

- rHu Insulin (**AK8211**)
- rHu Laminin-332 (**AK8999**)
- rHu EPO (**AK8210**)
- rHu G-CSF (**AK8248**)
- rHu b-FGF (**AK8263, AK8252, AK8234**)
- rHu GM-CSF (**AK8341**)
- rHu INF alpha 2a (**AK8561**)
- rHu IL-2 (**AK8223**)
- rHu PEG-GCSF (**AK9032**)
- Yeast extract (**AK4283**)
- Bovine Collagen Powder (**AK8982**)
- Trypsin (**AK8336**)