



**Bovine Plasma Fibronectin**  
Catalog Number: 8248

**Introduction**

Fibronectin is a 440-500 kDa glycoprotein found both as cell surface proteins and in plasma. It binds to cell membrane receptors and extracellular matrix components. ScienCell's bovine plasma fibronectin is purified from bovine plasma with affinity chromatography, serving as an ideal substrate to support cell adhesion and spreading.

**Product description**

Quantity: 1 mg

Concentration: 1 mg/ml

Storage buffer: 0.15 M NaCl, 20 mM Tris, pH 7.5

**Quality control**

Fibronectin quality was assured with a NuPAGE 4-12% Bis-Tris Gel stained with Coomassie brilliant blue. Under reducing conditions, fibronectin appeared as a doublet of 230 and 220 kDa. ELISA assay showed that absorbance was directly proportional to the logarithm of fibronectin concentration. Cell adhesion assay indicated that a coating with as low as 0.1  $\mu\text{g}/\text{cm}^2$  of fibronectin significantly promoted endothelial cell adhesion compared with non-coated controls.

**Storage/Handling**

It is recommended to store the product as single use aliquots at  $-80^\circ\text{C}$ . Thawing should be done slowly at  $37^\circ\text{C}$  with no agitation. Material that fails to dissolve can be removed by centrifugation. Avoid repeating freeze/thaw cycles.

**Application**

Recommended for use as a cell culture substratum at 1-5  $\mu\text{g}/\text{cm}^2$ . Optimal concentration depends on cell type.

**Coating Instructions**

1. Dilute fibronectin in a serum-free,  $\text{Ca}^{2+}$ ,  $\text{Mg}^{2+}$ -free culture medium or balanced neutral buffer. Coat the culture surface at 1-5  $\mu\text{g}/\text{cm}^2$  with a minimal volume.
2. Incubate at room temperature for 2 hours or  $2-8^\circ\text{C}$  overnight.
3. Aspirate remaining fibronectin solution and rinse with DI  $\text{H}_2\text{O}$ . The culture vessels are now ready to use.