



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°C . Thawing should be done slowly at 37°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, Ca^{2+} , 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 37°C incubator or at room temperature for at least 2 hours.
3. Aspirate remaining fibronectin solution and rinse with DI H_2O . The culture vessels are now ready to use.