

Active Bovine Fibronectin, carrier free

Cat. No. FN1-3B Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified Natural Bovine Fibronectin is purified from bovine plasma by affinity chromatography on gelatin-Sepharose.
Species	Bovine
Source	Bovine Plasma
Description	Fibronectin is a high-molecular weight (~440kDa) extracellular matrix glycoprotein that binds to membrane-spanning receptor proteins called integrins.[1] In addition to integrins, fibronectin also binds extracellular matrix components such as collagen, fibrin and heparan sulfate proteoglycans (e.g. syndecans). Fibronectin exists as a dimer, consisting of two nearly identical monomers linked by a pair of disulfide bonds. The fibronectin protein is produced from a single gene, but alternative splicing of its pre-mRNA leads to the creation of several isoforms.
Form	Supplied as a 0.2 µm filtered solution in 0.4 M Urea, 50 mM Tris-HCl (pH 7.5) and 0.5 M NaCl, at a concentration of 1.36 mg/mL.
Bio-activity	Measured by its ability to support cell attachment and spreading when used as a substratum for cell culture. In this application, the recommended concentration for this effect is typically 1 - 5 µg/cm ² . Fibronectin can also be added in the media to support cell spreading at a concentration of 0.5 - 50 µg/mL.
Endotoxin	<1.0 eu per 1 µg of the protein by the lal<1.0

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Purity	>90%, as determined by SDS-PAGE and visualized by silver stain.
Applications	Adherent Cell Assays
Usage	FOR RESEARCH USE ONLY
Quality Control Test	Samples are stable for up to six months at 2 - 8 centigrade. Avoid vortexing and excessive agitation. Aliquot into 50 µL to 100 µL volumes and store at ≤ -20 centigrade for up to six months in a manual defrost freezer.
Concentration	1.36 mg/mL
Warning	Avoid repeated freeze-thaw cycles.

GENE INFORMATION

Gene Name	FN1 fibronectin 1 [Bos taurus]
Official Symbol	FN1
Synonyms	FN; fibronectin; fibronectin ED-A- region; fibronectin variable region; embryo-specific fibronectin 1 transcript; cumulus cell-specific fibronectin 1 transcript
Gene ID	280794
mRNA Refseq	NM_001163778
Protein Refseq	NP_001157250
Chromosome Location	chromosome: 2

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Pathway

Amoebiasis, organism-specific biosystem; Bacterial invasion of epithelial cells, organism-specific biosystem; Bacterial invasion of epithelial cells, conserved biosystem

Function

heparin binding; peptidase activator activity

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