



Product Information

Product Number	Description	Source	Storage	Target Cells For Attachment	Concentration For Use	Refs.
F 0895	FIBRONECTIN 0.1% Solution	human plasma	2-8 °C	epithelial cells, mesenchymal cells, neuronal cells, fibroblasts, neural crest cells, endothelial cells	1-5 µg/cm ²	1,3,7,8, 10,11
F 1141		bovine plasma				
F 3542	FIBRONECTIN Fragment III ₁ -C	recombinant	-20 °C		0.45 µg/ml with 0.5 g/ml fibronectin	
F 4759	FIBRONECTIN Lyophilized	bovine plasma	-0 °C		1-5 µg/cm ²	
F 2006		human plasma				
F 0635		rat plasma				
F 2518	FIBRONECTIN CELLULAR Lyophilized	human foreskin				
F 6277	FIBRONECTIN CELLULAR Aseptically processed Lyophilized					
F 5022	FIBRONECTIN-LIKE ENGINEERED PROTEIN POLYMER	recombinant	Room Temp.		2-10 µg/cm ²	20,21, 22,23

This table is extracted from the Tissue Culture Technical Information Section of the Sigma Catalog. Please refer to the catalog for the complete table of extracellular matrices/attachment factors and references.

F3542 FIBRONECTIN FRAGMENT III1- C HUMAN RECOMBINANT

Recombinant PCR technique was used to clone the cDNA of Fibronectin Fragment III1-C from human placenta RNA.

The following reference might be of help: Morla A., et al (1994) Nature, 367, 193.

F3542, Fibronectin fragment III1-C Human recombinant-C DNA AND PROTEIN SEQUENCE is:

```

Asn Ala Pro Gln Pro Ser His Ile Ser Lys Tyr Ile Leu Arg Trp
AAT GCA CCA CAG CCA TCT CAC ATT TCC AAG TAC ATT CTC AGG TGG
    15      30      45
Arg Pro Lys Asn Ser Val Gly Arg Trp Lys Glu Ala Thr Ile Pro
AGA CCT AAA AAT TCT GTA GGC CGT TGG AAG GAA GCT ACC ATA CCA
    60      75      90
Gly His Leu Asn Ser Tyr Thr Ile Lys Gly Leu Lys Pro Gly Val
GGC CAC TTA AAC TCT TAC ACC ATC AAA GGC CTG AAG CCT GGT GTG
    105     120     135
Val Tyr Glu Gly Gln Leu Ile Ser Ile Gln Gln Tyr Gly His Gln
GTA TAC GAG GGC CAG CTC ATC AGC ATC CAG CAG TAC GGC CAC CAA
    150     165     180
Glu Val Thr Arg Phe Asp Phe Thr Thr Thr Ser Thr Ser Thr Pro
GAA GTG ACT CGC TTT GAC TTC ACC ACC ACC AGC ACC AGC ACA CCT
    195     210     225
  
```

REFERENCES:

1. Cannella, M. and Ross, R. (1987). *Experimental Neurology* 95:652-660.
2. Foster, R. et al. (1987). *Developmental Biology* 122:11-20.
3. Grant, P. and Tseng, Y. (1986). *Developmental Biology* 114:475-491.
4. Hauschka, S. (1972). Cultivation of muscle tissue. In: *Growth, Nutrition, and Metabolism of Cells in Culture*. Rothblat G. and Cristofals, V. (eds). Academic Press, NY. Vol 2: 67-130.
5. Kleinman, H. et al. (1987). *Analytical Biochemistry* 166:1-13.
6. Kleinman, H. (1985). *Cellular Biochem.* 27:317-325.
7. Leifer, D. (1984). *Science* 224(4646): 303-306.
8. Needham, L. et al. (1988). *Laboratory Investigation* 59(4): 538-548.
9. Yaffe, D. (1973). Rat Skeletal Muscle Cells. In: *Tissue Culture: Methods and Applications*. Kruse, P. and Patterson, M. (eds). New York Academic Press, pp 106-109.
10. Yamada, K. and Akiyama, S. (1984). Preparation of Cellular Fibronectin. In: *Methods for Preparation of Media, Supplements, and Substrata for Serum-Free Animal Cell Culture Vol 1*. Alan R. Liss, Inc., New York, NY. pp. 215-230.
11. Yong, V. W. et al. (1988). *Dev. Neuroscience* 10:222-230.
20. Ruoslahti, E. and Pierschbacher, M. (1987). *Science* 238:491-497.
21. Pierschbacher, M. and Ruoslahti, E. (1987). *J. Biol. Chem.* 262(36):17294-17298.
22. Cappello, J. and Crissman, J. (1990). *ACS Polymer Preprints* 31(1):193-194.
23. Cappello, J. et al. (1990). *Materials Research Society Symposium Proceedings* 174:267-276