

Product Information

Attachment and Matrix Factors

Product Number	Description	Source	Storage	Target Cells For Attachment	Concentration For Use	Refs.
S 5174	SPARC (secreted protein acidic and rich in cysteine)	mouse parietal yolk sac (PYS-2) cells	-20°C	Expressed in a variety of tissues, it inhibits cell spreading and diminishes focal contacts in vitro	4-40 µg/ml	52,53
S 5171	SUPERFIBRONECTIN Approx. 300 Bloom	human plasma and recombinant	2-8°C	epithelial cells, mesenchymal cells, neuronal cells, fibroblasts, neural crest cells, endothelial cells	1 µg/ml	54,55, 56,57, 58
T 9427	TENASCIN Lyophilized	human glioblastoma cells	-20°C	epithelial cells, mesenchymal cells, neuronal cells, neural crest cells	10 µg/cm ²	59,60, 61
T 7043	THROMBOSPONDIN Lyophilized	human platelets	-20°C	Attachment of osteoblasts, bovine aortic endothelial cells, neurons, human melanoma cells; enhances proliferation of mitogen-stimulated smooth muscle cells and fibroblasts	25 ng-50 µg/ml	36,37, 38,39, 40,41, 42,43, 44,45, 46
V 8379	VITRONECTIN	human plasma	2-8°C; store	Cells with integrin receptors that bind vitronectin: platelets, endothelial cells, melanoma cells, osteosarcoma	0.1 µg/cm ²	26,27, 28,29, 30,31, 32
V 0132		rat plasma	solubilized product			
V 9881		bovine plasma	at 2-8°C			

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.

PRODUCT USE:

■ THROMBOSPONDIN (Product No. T 7043)

Optimal conditions must be determined for each cell line and application.

- 1) Reconstitute with 0.5 ml of tissue culture grade water and sterilize by filtration.
- 2) The resulting solution is slightly hazy and has a concentration of 40 µg/ml.
- 3) Use concentration for thrombospondin in culture has been reported in the range of 25 ng to 50 µg/ml depending upon the application.
- 4) Please refer to the literature for more specific information.

■ VITRONECTIN (Product Nos. V 8379, V 0132, V 9881)

Optimal conditions must be determined for each cell line and application.

- 1) Reconstitute with tissue culture grade water and sterilize by filtration.
- 2) Material is reported to be active at a concentration of 0.1 mg/cm² of surface area. Optimal concentrations vary with each cell line.
- 3) Coat culture surface for 1-2 hours at 37°C. Remove any remaining solution and wash with a balanced salt solution before introducing cells and medium.

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