

Peptide Inhibitors of Fibronectin and Related Collagen-Binding Proteins

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Technology description

Summary

Fibronectin has been implicated in a variety of cell contact processes, including cell attachment and migration. Fibronectin interacts with collagen through its gelatin-binding domain and this interaction is fundamental to the organization of extracellular matrices and the behavior of these cells on substrates. Fibronectin is essential for the attachment and migration of many cells, including various tumor and cancer cells.

The issued patents disclose peptide compositions having binding affinity for fibronectin, as well as methods for binding fibronectin with a fibronectin-binding peptide and methods for inhibiting fibronectin-mediated cell adhesion. The peptides disclosed are derived from the extracellular matrix protein thrombospondin, which is a modular adhesive glycoprotein that binds to the gelatin binding domain of fibronectin. These peptides are strong inhibitors of fibronectin-mediated cell adhesion. As such, they may be applicable to a variety of indications including cancer, wound healing, and connective tissue diseases.

Application area

Potential therapeutic use for applications such as cancer, wound healing, and connective tissue disease. Research tools for study of cell adhesion and migration processes.

Institution

[NIH - National Institutes of Health](#)

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