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RGD43 hydrogel scaffold overview (left) and scanning electron microscopic observation of the RGD43 hydrogel scaffold (right).

RGD43 is recombinant artificial extracellular matrix protein with 43 repeats of Arg-Gly-Asp (RGD) sequence. RGD43 hydrogel scaffold was prepared by cross-linking the RGD43 using glutaraldehyde. NIH3T3 cells adhered on the RGD43 hydrogel surface. The adherent cells extended filopodia and spread on the hydrogel. Thus the RGD43 hydrogel scaffold might be suitable for use as a biodegradable scaffold for tissue engineering.

Related article: Kurihara, H. and Nagamune, T., "Cell adhesion ability of artificial extracellular matrix proteins containing a long repetitive Arg-Gly-Asp sequence", *J. Biosci. Bioeng.*, vol.100, 82-87 (2005).

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