Supporting Information for

N-Cadherin Mimetic Peptide Nanofiber System Induces Chondrogenic Differentiation of Mesenchymal Stem Cells

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Figure S1. A) Reverse phase HPLC chromatogram of HAV-PA molecule, the change of response units with respect to time at 220 nm (left). Mass spectrometry of HAV-PA (right). [M-H]⁻ (calculated): 1146.4 [M-H]⁻ (observed): 1146.7. B) HPLC chromatogram of KK-PA, the change of response units with respect to time at 220 nm (left). Mass spectrometry of KK-PA (right). $[M+H]^+$ (calculated):782.1 $[M+H]^+$ (observed): 782.5. C) RP-HPLC chromatogram of E-PA, the change of response units with respect to time at 220 nm (left). Mass spectrometry of E-PA (right). $[M-H]^-$ (calculated): 655.42 $[M-H]^-$ (observed): 654.42.

Prim er	Sequence (F)	Sequence (R)	Annealing Temp.
Sox9	5'-AGGAAGCTGGCAGACCAGTA-3'	5'-CGTTCTTCACCGACTTCCTC-3'	60 °C
Aggrecan	5'-GGTCACTGTTACCGCCACTT-3'	5'-CCCCTTCGATAGTCCTGTCA-3'	58.2 °C
Collagen II	5'-ACTTGCGTCTACCCCAACC-3'	5'-GCCATAGCTGAAGTGGAAGC-3'	59.6 °C

Table S1. Primer sequences used for qRT-PCR expression analysis



Figure S2. A) Quantification as % intensity of Sox9 chondrogenic marker in day7 for both nuclei (N) and cytoplasm (C). B) Ratio of % intensity showing nuclei/cytoplasm. Statistical analysis was performed with one-way ANOVA and Bonferroni's multiple comparisons test. Error bars represent standard error of mean