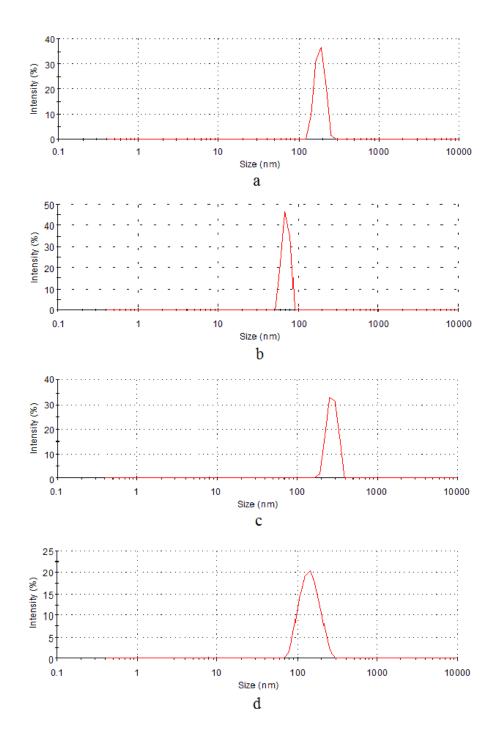
Supporting Information

Alginate modified nanostructured calcium carbonate with enhanced delivery efficiency for gene and drug delivery

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FigureS1. The particle size distributions of different nanoparticles: (a) freshly prepared CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50, (b) freshly prepared alginate/CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50 and alginate amount of 1 μ g, (c) CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50 after storage at 37 °C for 4 h, and (d) alginate/CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50 and alginate amount of 1 μ g after storage at 37 °C for 4 h.

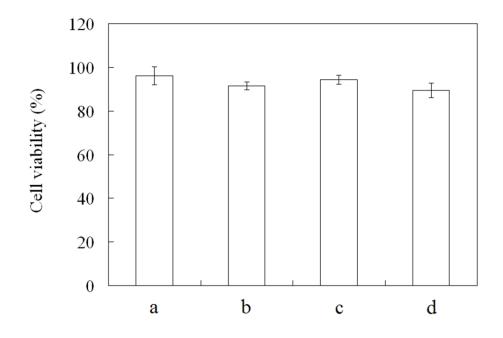


Figure S2. Cell viability of 293T cells after transfection for 48 h mediated by different nanoparticles: (a) CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50, (b) alginate/CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 50 and alginate amount of 1 μ g, (c) CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 100, and (d) alginate/CaCO₃/DNA with Ca²⁺/CO₃²⁻ ratio of 100 and alginate amount of 1 μ g. The nanoparticles used for transfection were freshly prepared.