Supplement materials

Co-delivery Vitamin D3 and Lkb1 siRNA by Cationic Lipid-assisted PEG-PLGA Nanoparticles to Effectively Remodel the Immune System *In Vivo*

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**Figure S1.** Percentage of DiI$^+$ cells and Cy5$^+$ cells in DC1.2 cells after stimulation with different nanoparticles was detected by flow cytometry.
Figure S2. (A) Representative flow cytometry of DCs in lymph nodes of C57BL/6 mice 48 hours after intradermal injection. (B) NPs/VD3/siLkb1 decreased the proportion of DCs in CD45+ cells in the draining lymph nodes of C57BL/6 mice 48 hours after intradermal injection. (C) Representative flow cytometry of Tregs in lymph nodes of C57BL/6 mice 24 hours after intradermal injection. (D, E) The percentage of Tregs in CD4+ T cells and ratio of Treg/CD8+ T cells in lymph nodes (D) and spleen (E) 24 h and 48 h after intradermal injection. Data were expressed as mean ±S.E.M.
Figure S3. Changes in body weight of EAE mice treated with nanoparticles in different groups