

Supporting Information

A novel biocompatible, simvastatin-loaded, bone-targeting lipid nanocarrier for treating osteoporosis more effectively

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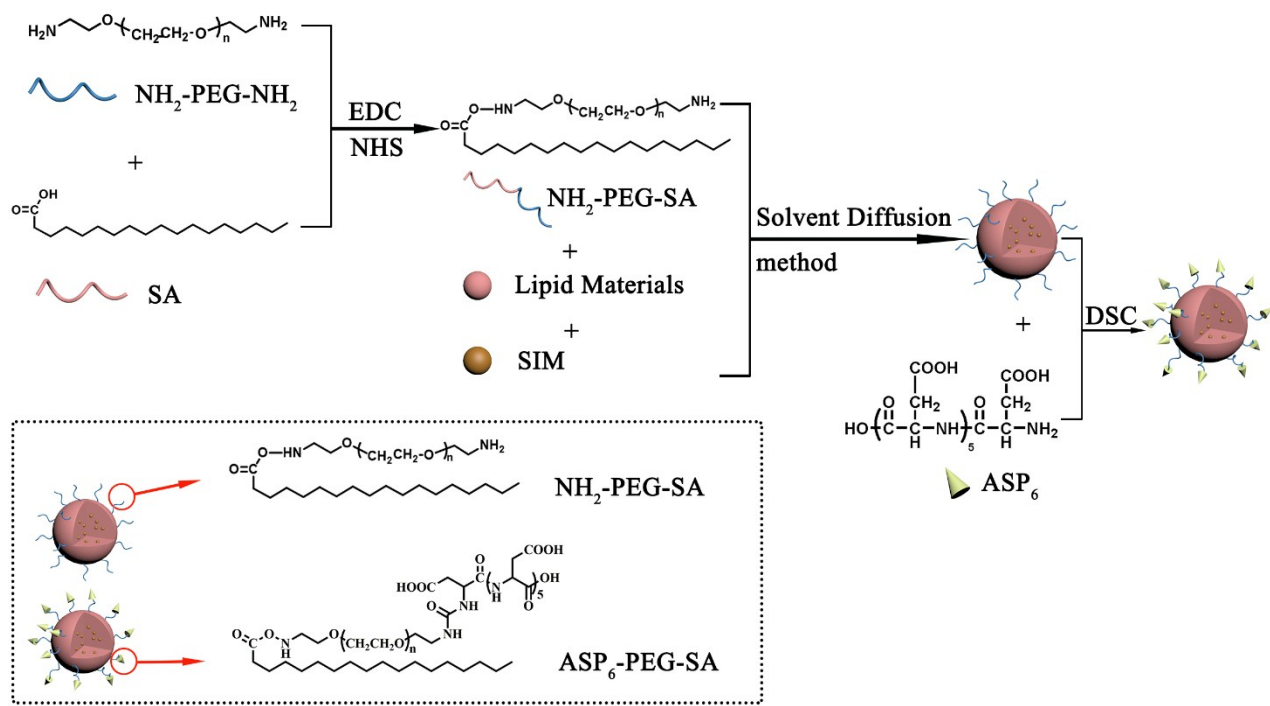


Figure S1. Design and synthetic route of lipid nanoparticles.

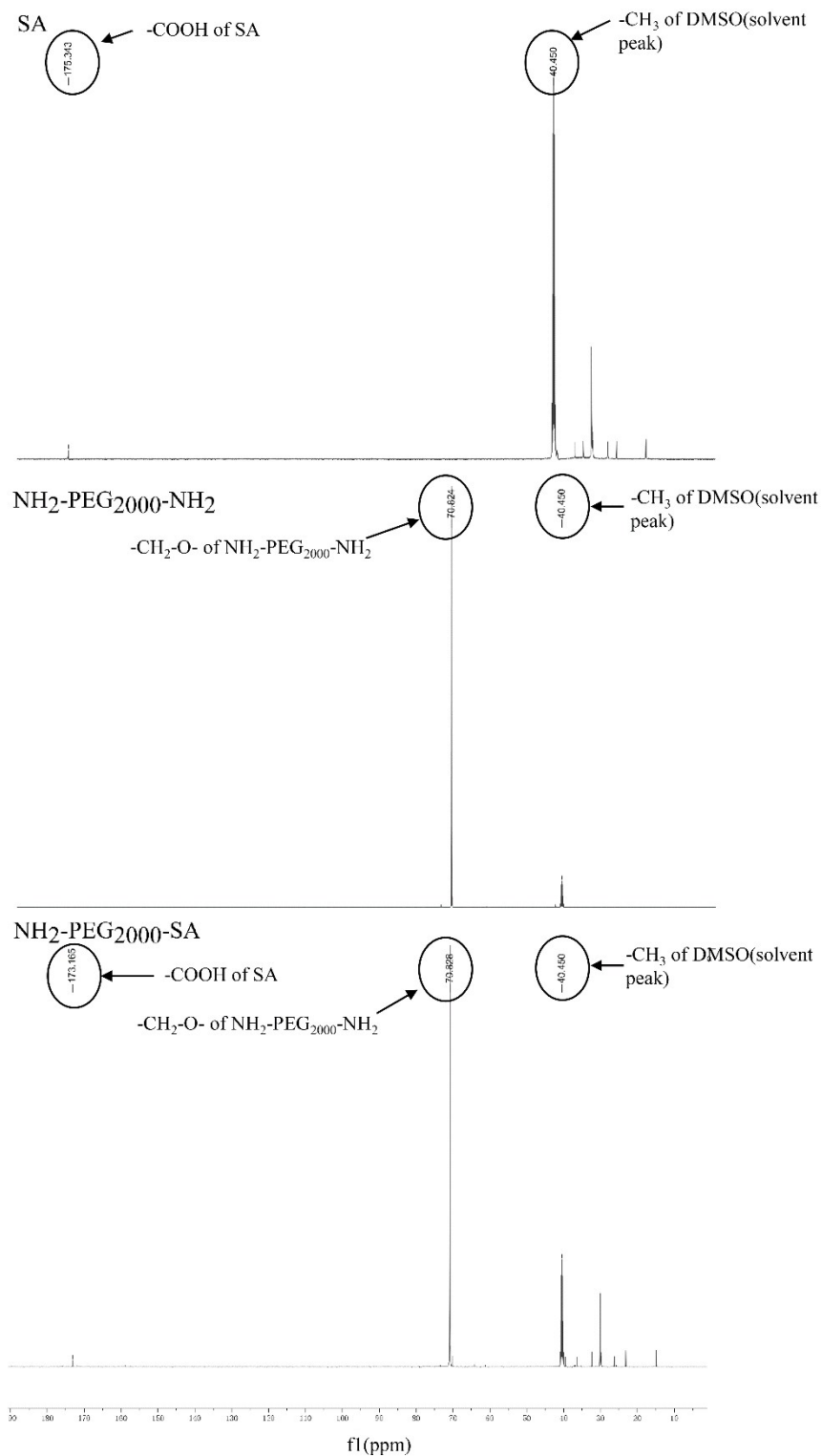
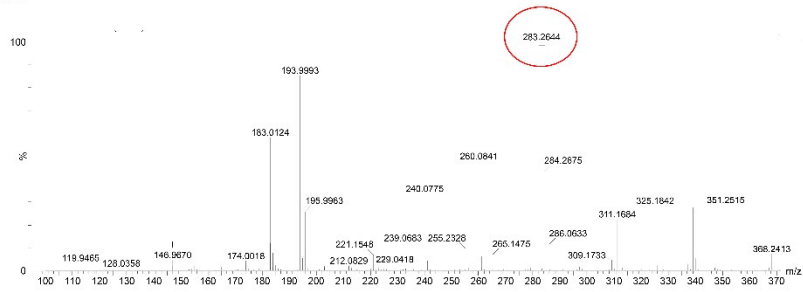
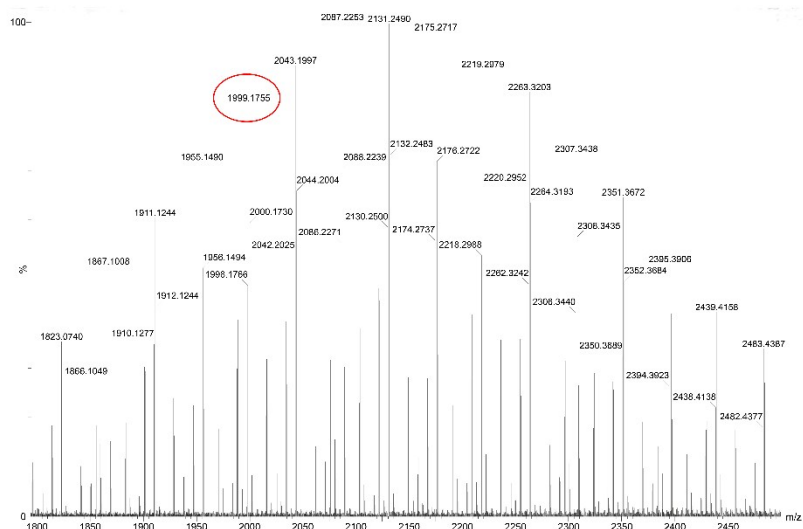


Figure S2. ^{13}C NMR spectra of SA, $\text{NH}_2\text{-PEG}_{2000}\text{-NH}_2$ and $\text{NH}_2\text{-PEG}_{2000}\text{-SA}$. All the chemicals were dissolved in DMSO.

SA



NH₂-PEG₂₀₀₀-NH₂



NH₂-PEG₂₀₀₀-SA

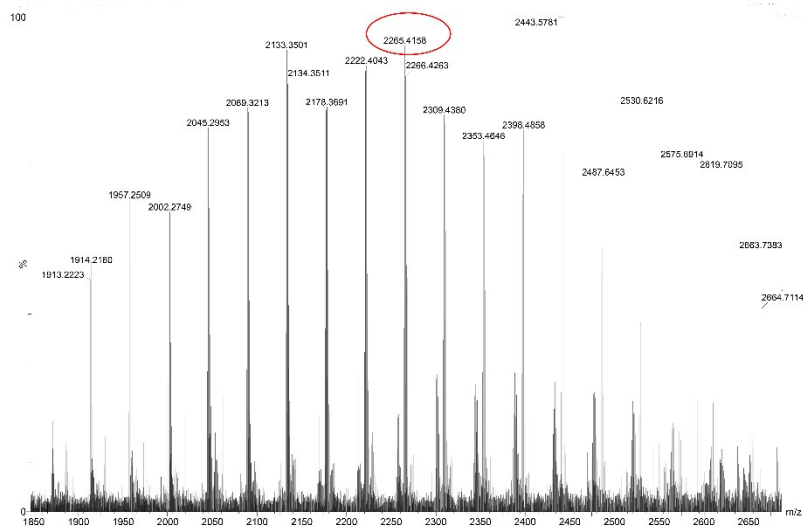


Figure S3. Mass spectrum of SA, NH₂-PEG₂₀₀₀-NH₂ and NH₂-PEG₂₀₀₀-SA. All the chemicals were dissolved in methanol.