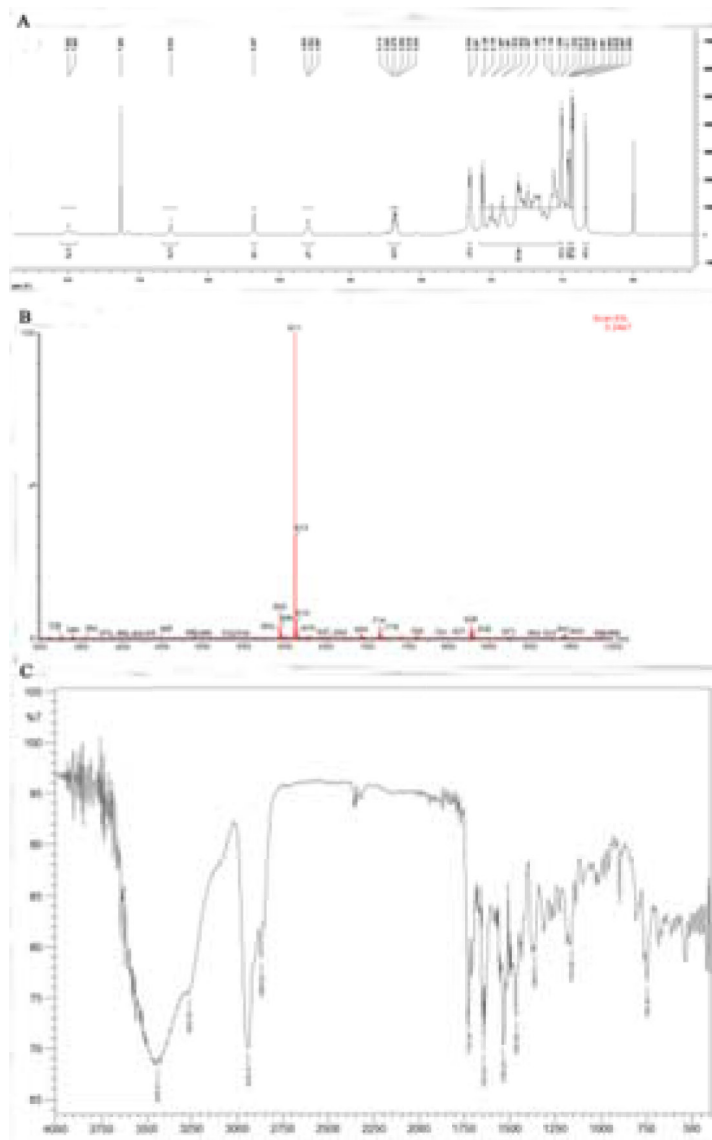
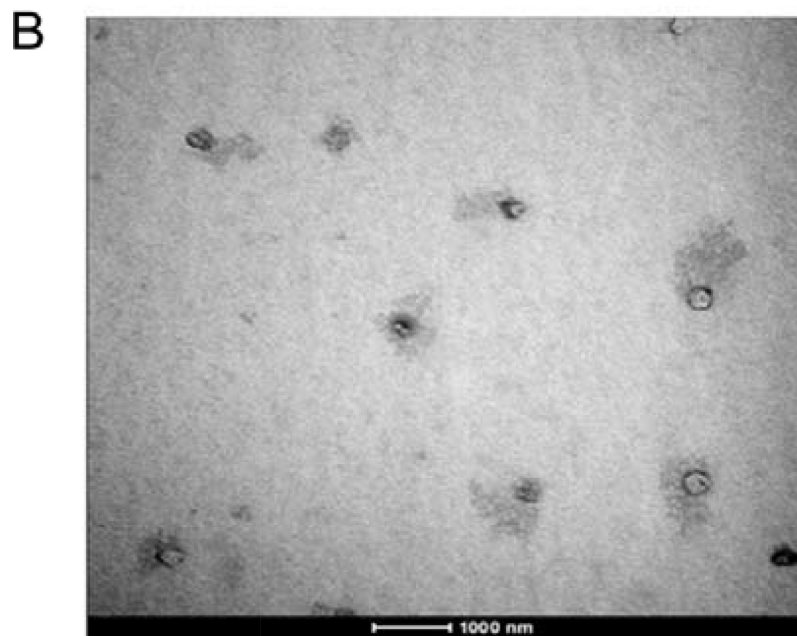
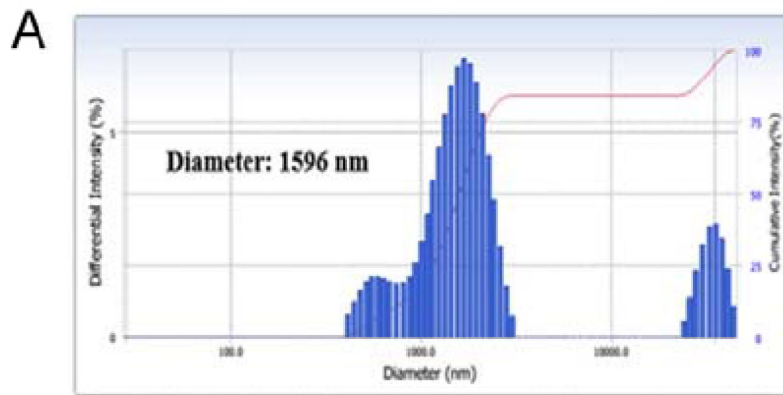


Charge reversible calcium phosphate lipid hybrid nanoparticle for siRNA delivery

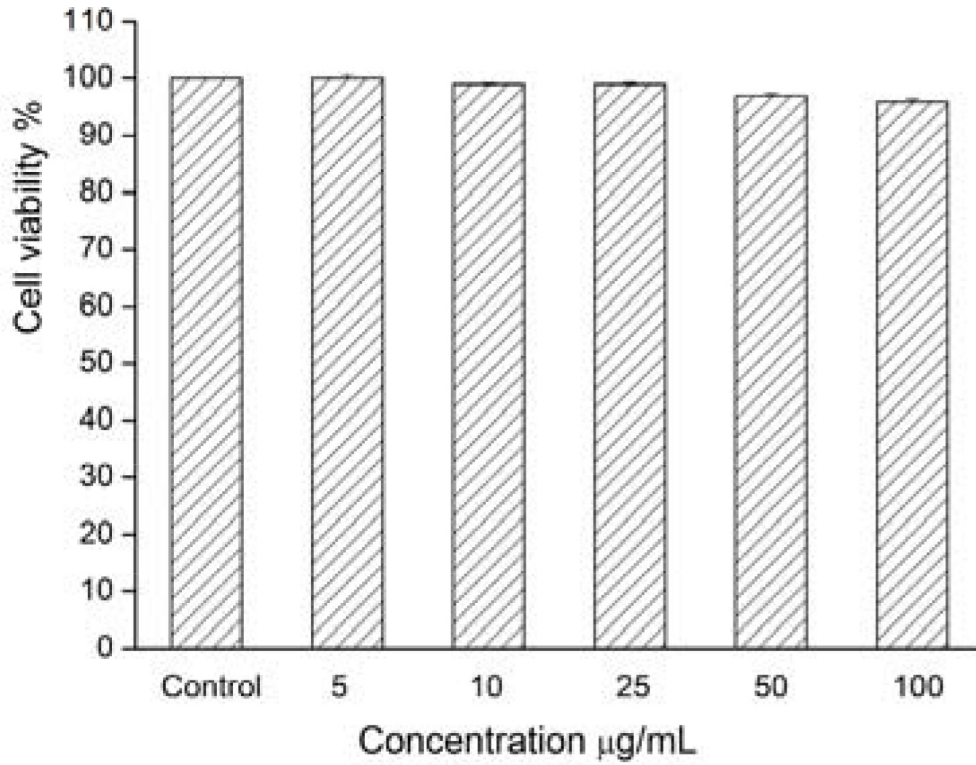
Supplementary Materials



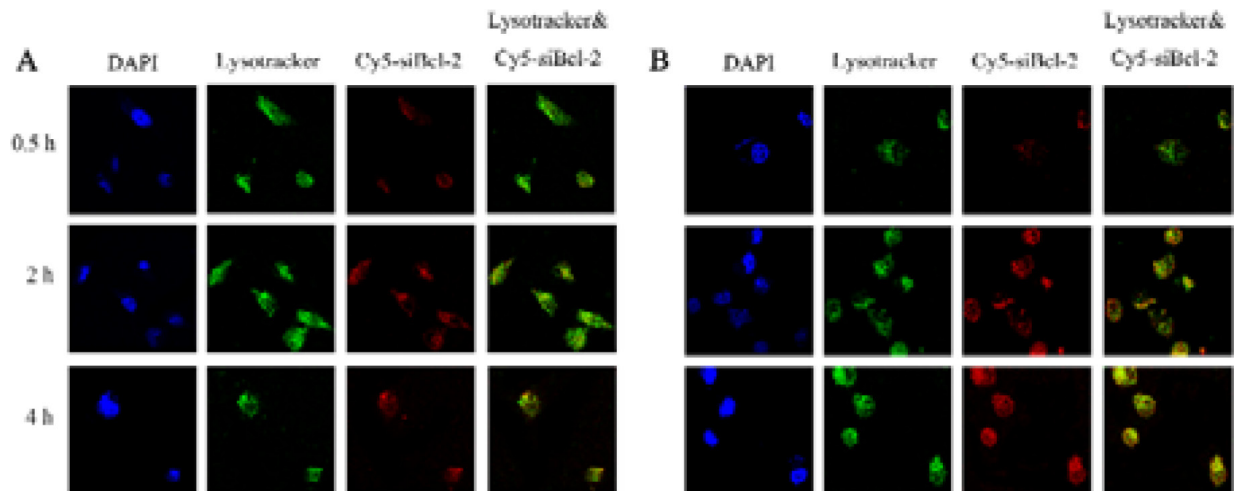
Supplementary Figure 1: The ^1H NMR spectrum, mass spectrum and FTIR spectrum of CHOL-AA-Cit.



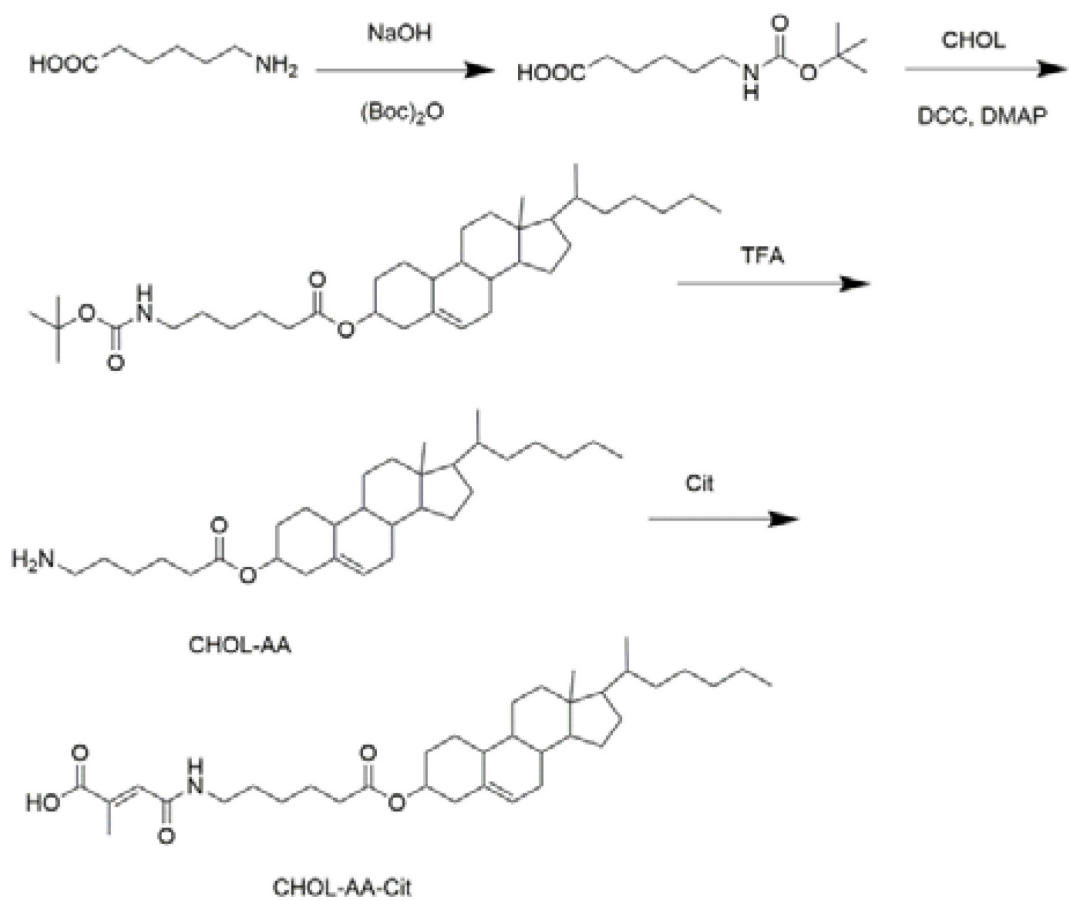
Supplementary Figure 2: The size of LNPS@siBcl-2 in pH5.5 medium detected by dynamic light scattering (A) and transmission electron microscopy (B).



Supplementary Figure 3: Cytotoxicity of the calcium phosphate lipid hybrid nanoparticles without loading siBcl-2 (LNPS) on A549 cells.



Supplementary Figure 4: Intracellular trafficking of Cy5-siBcl-2 in A549 cells delivered by NLNPS@Cy5-siBcl-2. (Panel A and panel B) are the subcellular distribution of Cy5-siBcl-2 delivered by NLNPS@Cy5-siBcl-2 in pH7.4 and pH 6.5 medium, respectively. $20\times$ oil immersion objective and $10\times$ ocular lens. Red stands for Cy5-siBcl-2, green stands for endolysosome and blue stands for nucleus. Yellow stands for Cy5-siBcl-2 in endolysosome.



Supplementary Figure 5: Synthetic route of CHOL-AA-Cit.