

Supporting Information

Delivery of Rapamycin by Biomimetic Peptide Nanoparticles Targeting Oxidized Low-Density Lipoprotein in Atherosclerotic Plaques

Anqi Wang¹⁾, Kai Yue^{1,2)}, Weishen Zhong¹⁾, Genpei Zhang¹⁾, Lei Wang³⁾, Hua Zhang⁴⁾,
Xinxin Zhang^{1,2)}*

*1) School of Energy and Environmental Engineering, University of Science and
Technology Beijing, Beijing 100083, China*

*2) Shunde Graduate School of University of Science and Technology Beijing, Shunde,
Guangdong Province, 528399, China*

*3) CAS Key Laboratory for Biomedical Effects of Nanomaterials and Nanosafety,
National Center for Nanoscience and Technology (NCNST), Beijing 100190, China*

*4) Chinese Academy of Medical Sciences and Peking Union Medical College, Beijing,
100730, China.*

**Corresponding author: yuekai@ustb.edu.cn*

Figure S1. Initial configuration of the FRB and RAPA.

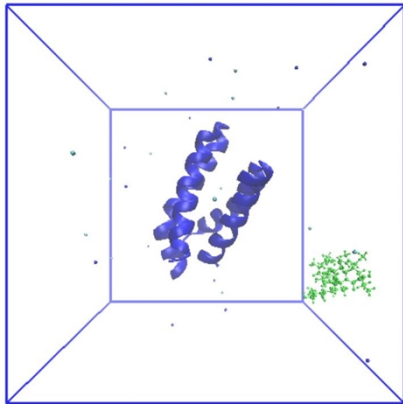


Figure S2. Initial configurations of the peptides and RAPA.

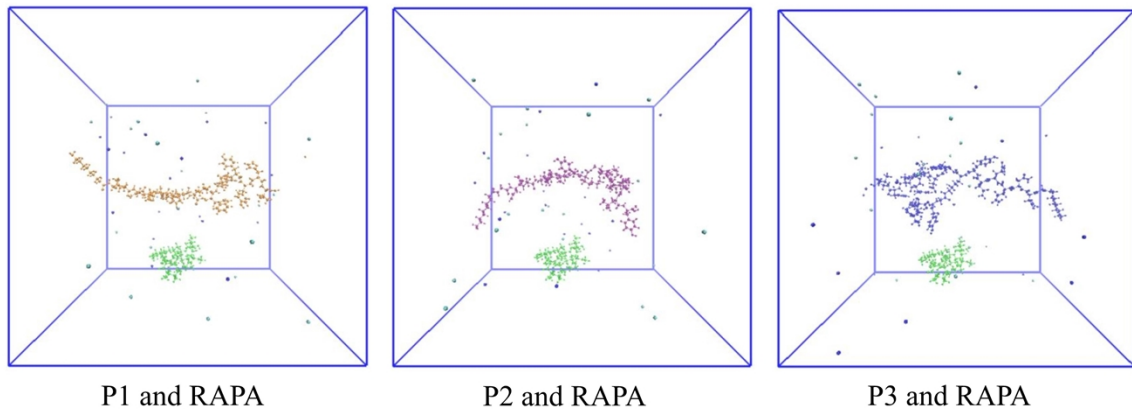


Figure S3. Initial configurations of SMD simulations.

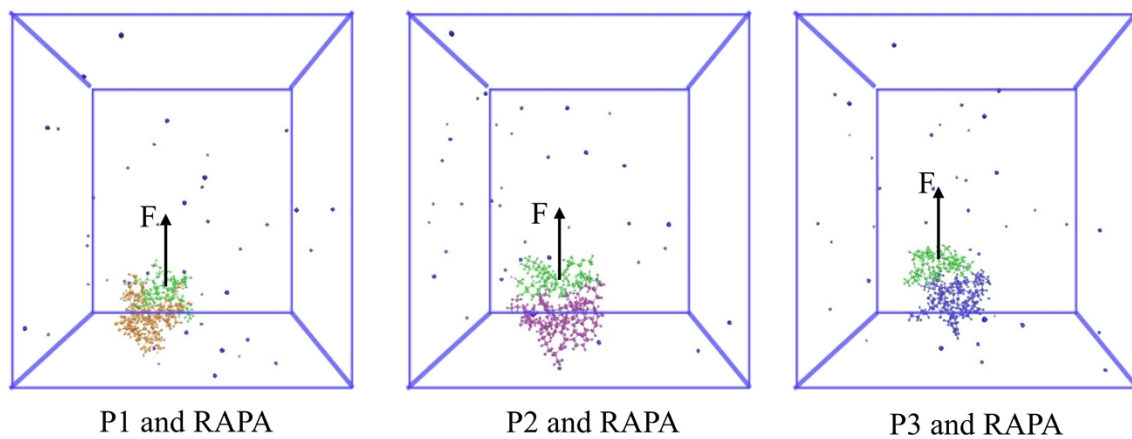


Figure S4. HPLC profile and MS analysis of P1.

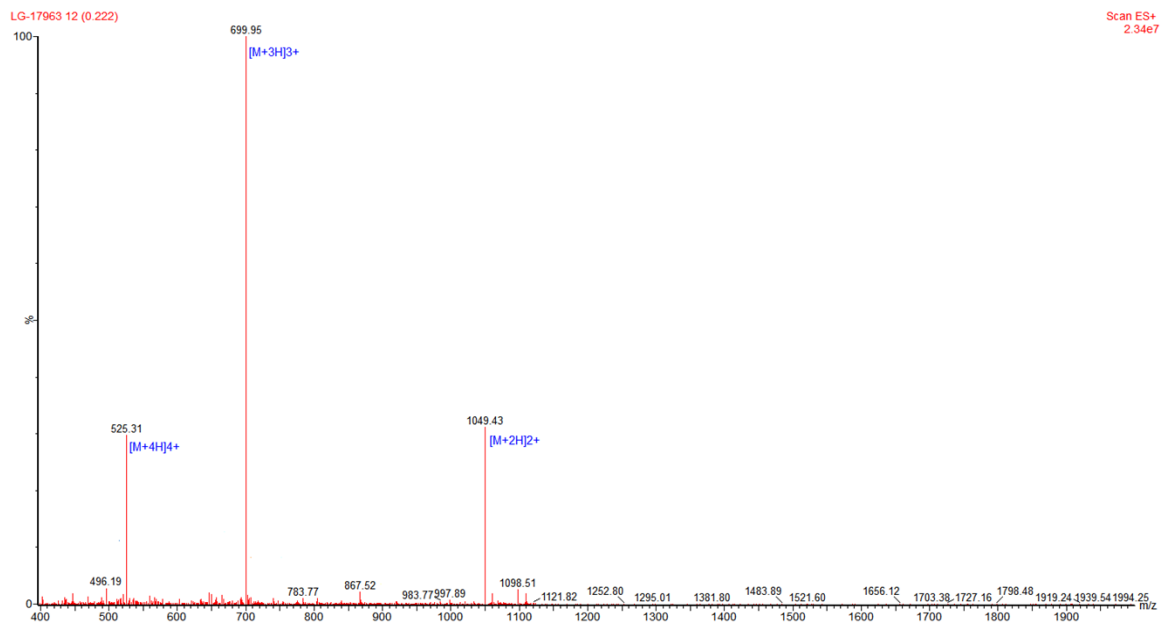
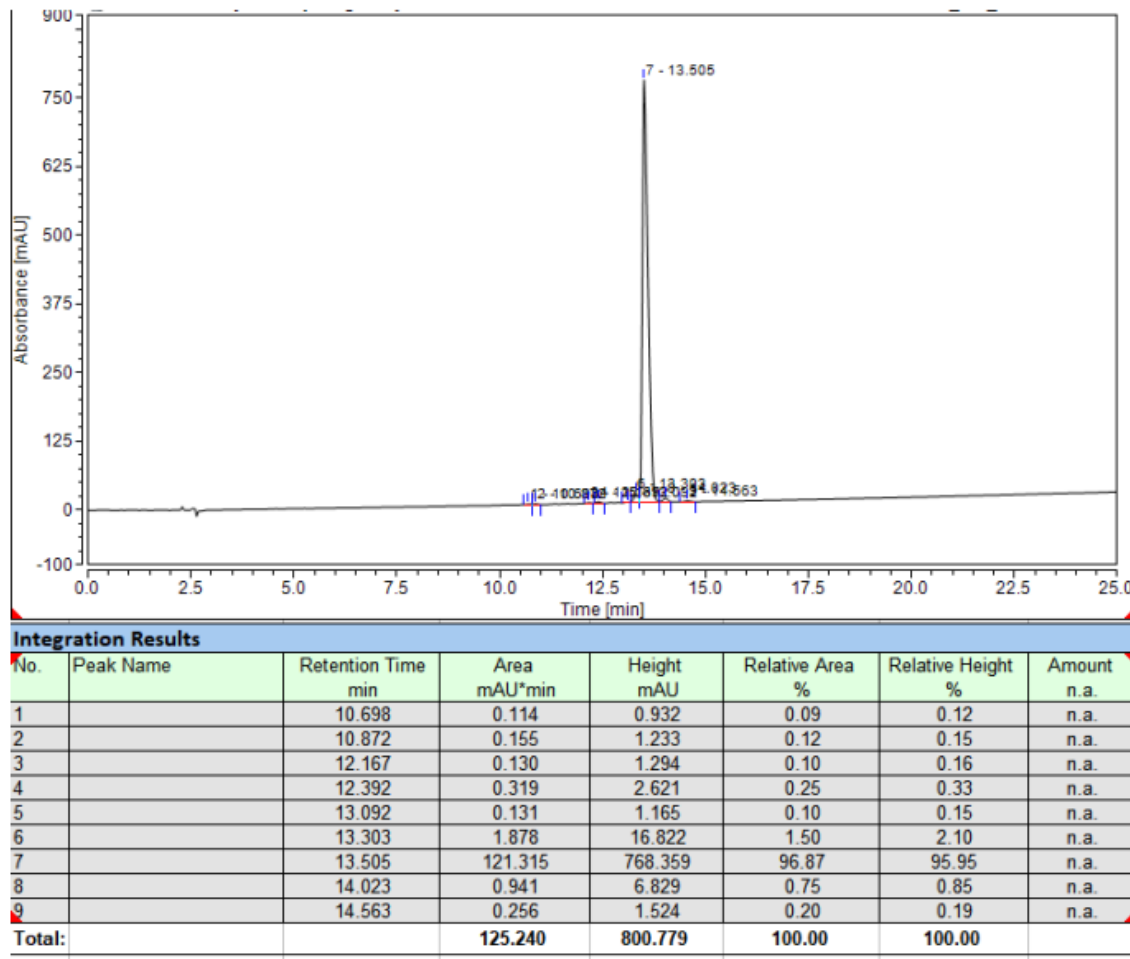


Figure S5. HPLC profile and MS analysis of P2.

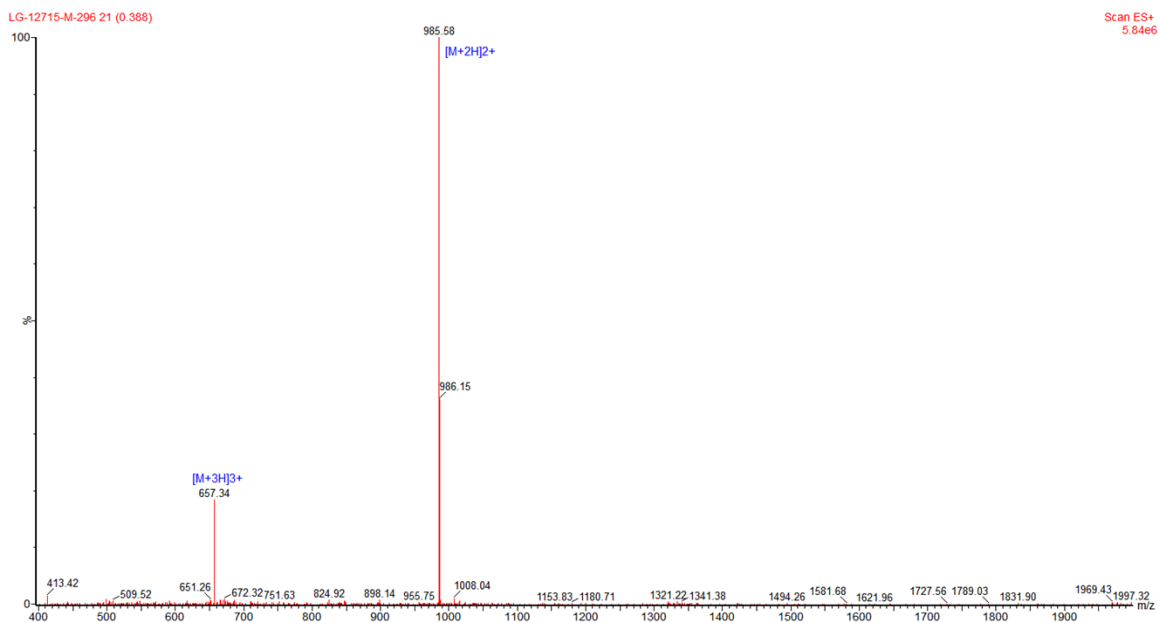
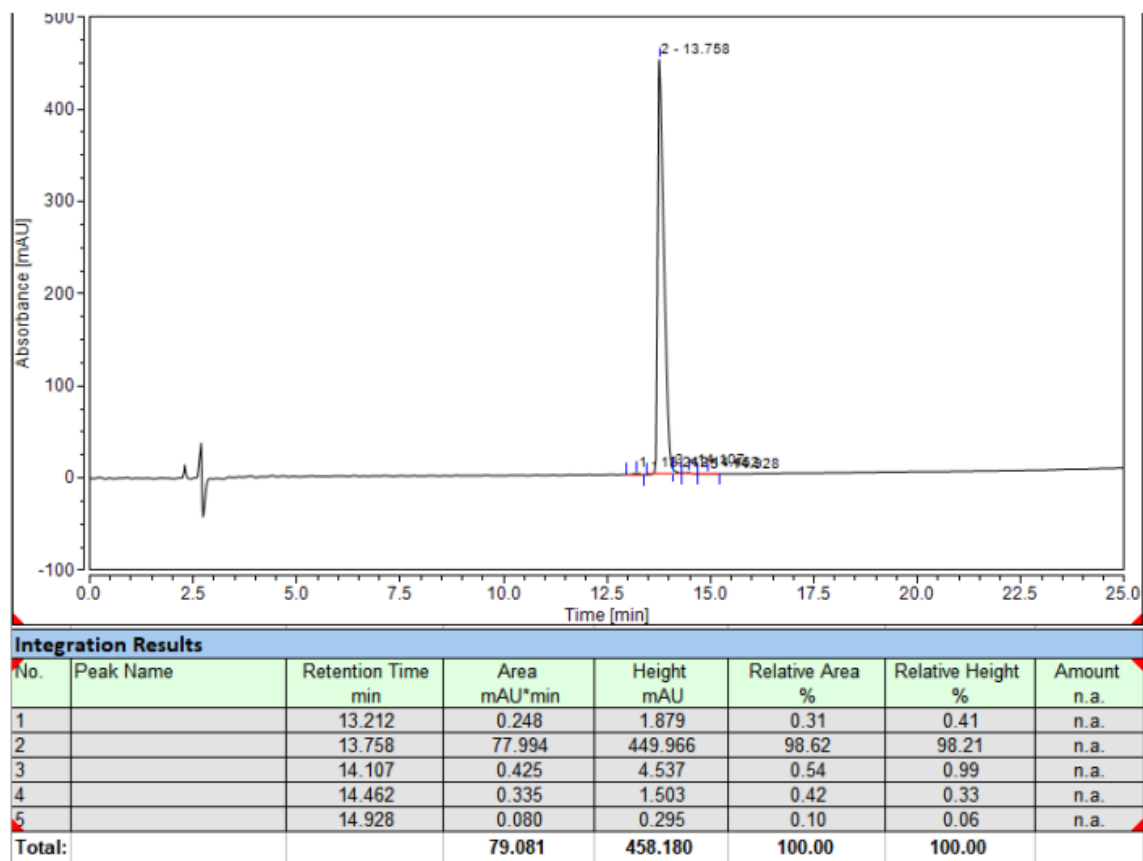


Figure S6. HPLC profile and MS analysis of P3.

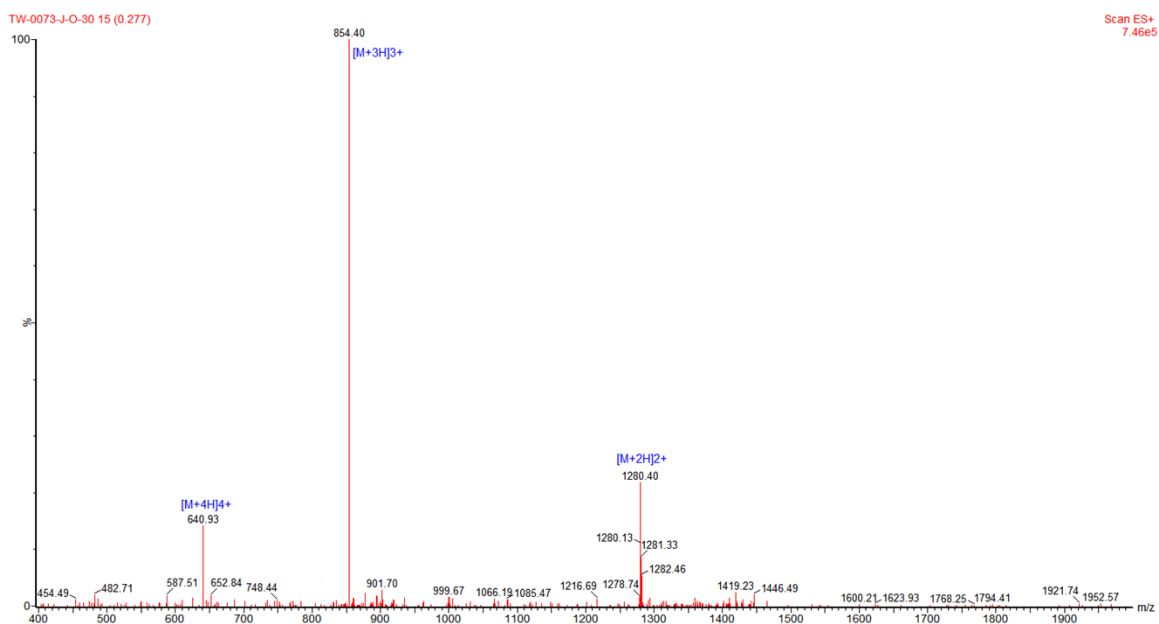
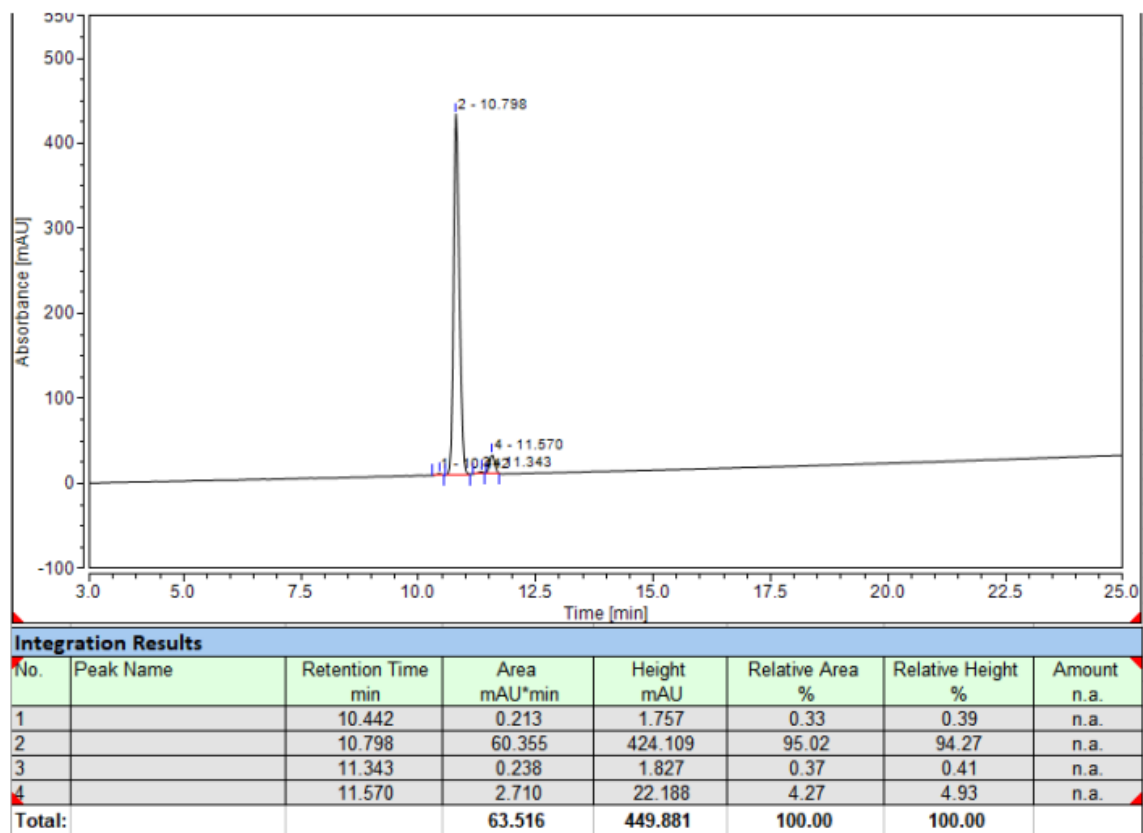


Figure S7. Zeta-potential of P1, P2 and P3.

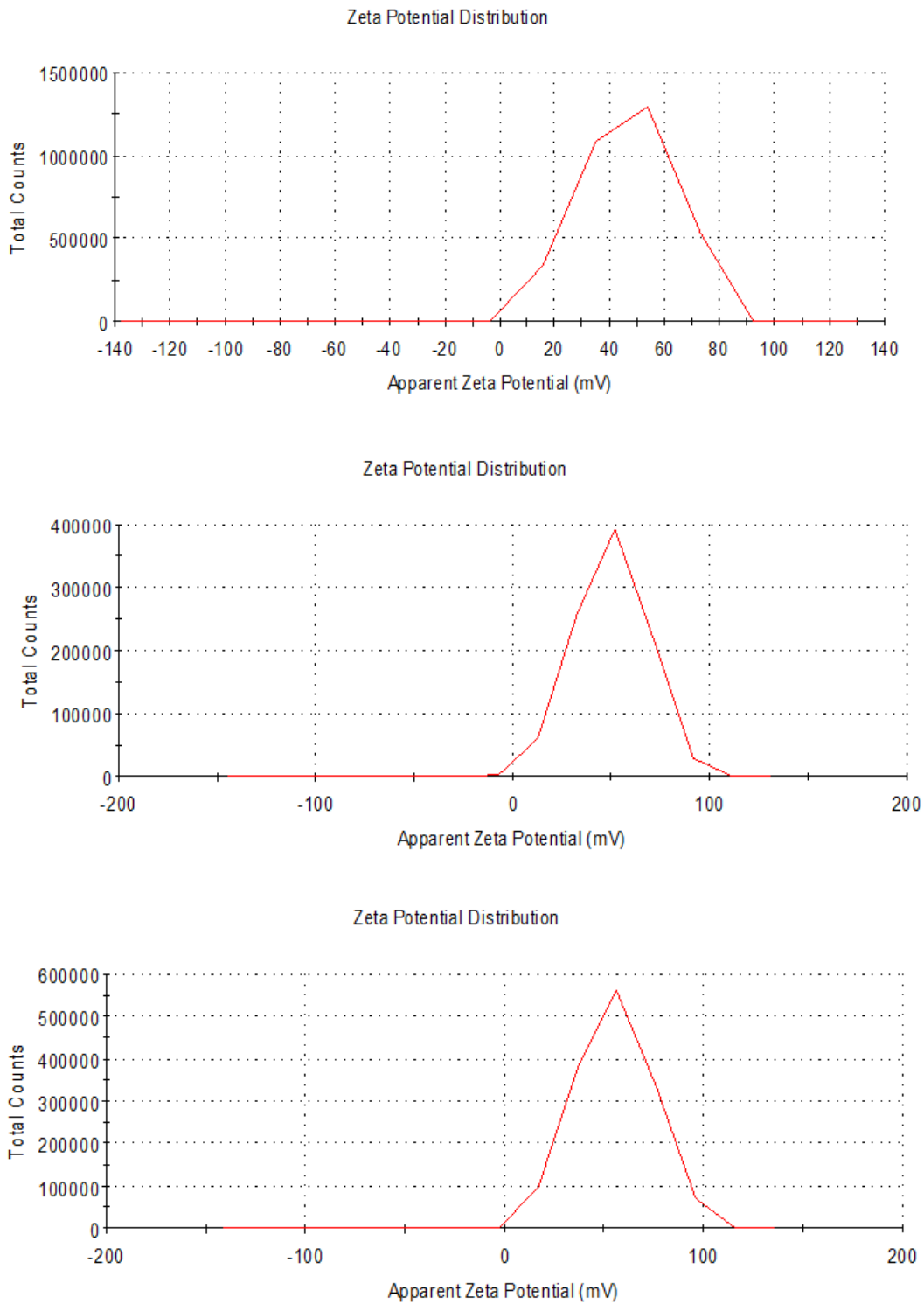


Figure S8. FTIR spectra of P1, P2 and P3.

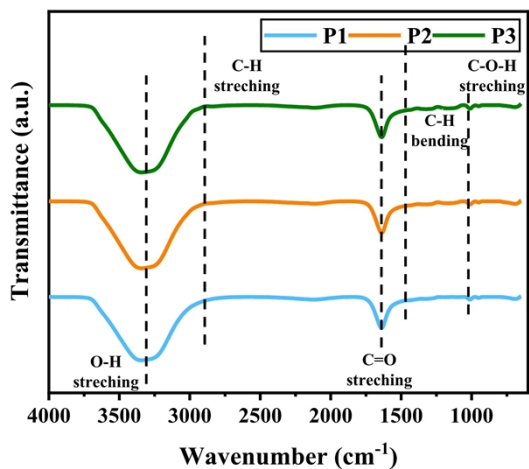


Figure S9. Encapsulation, drug loading and drug leakage efficiencies of P1 and P2.

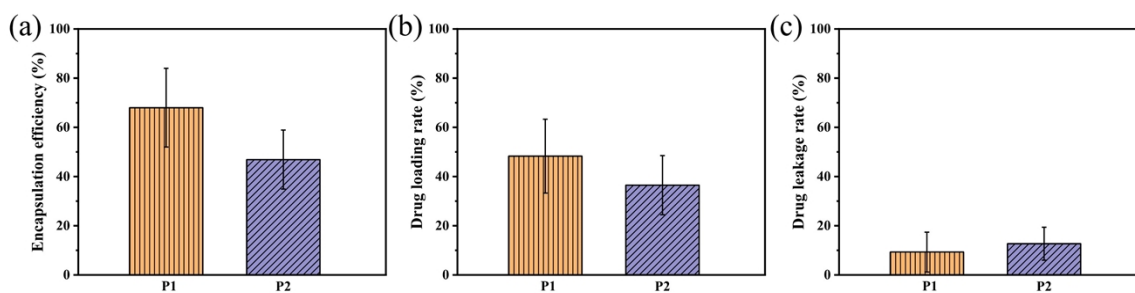


Figure S10. Encapsulation, drug loading and drug leakage efficiencies of P3.

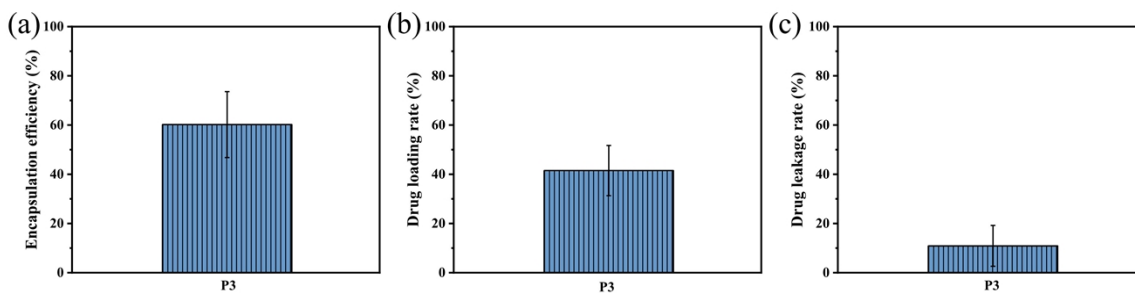


Figure S11. Viability of RAW264.7/HUVEC cells.

