

Supporting Information

Ultrasensitive Detection of Multiple Alzheimer's Disease Biomarkers by SERS-LFA

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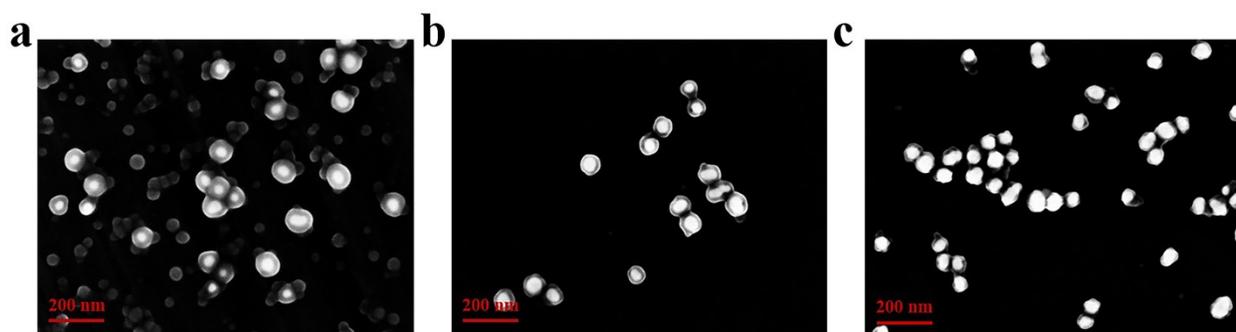


Fig. S1 SEM image of Au@SiO₂ SERS nanotags. (a) Au@SiO₂ SERS nanotags synthesized by adding 8 mL of TEOS. (b) Au@SiO₂ SERS nanotags synthesized by adding 5 mL of TEOS. (c) Au@SiO₂ SERS nanotags synthesized by adding 2 mL of TEOS.

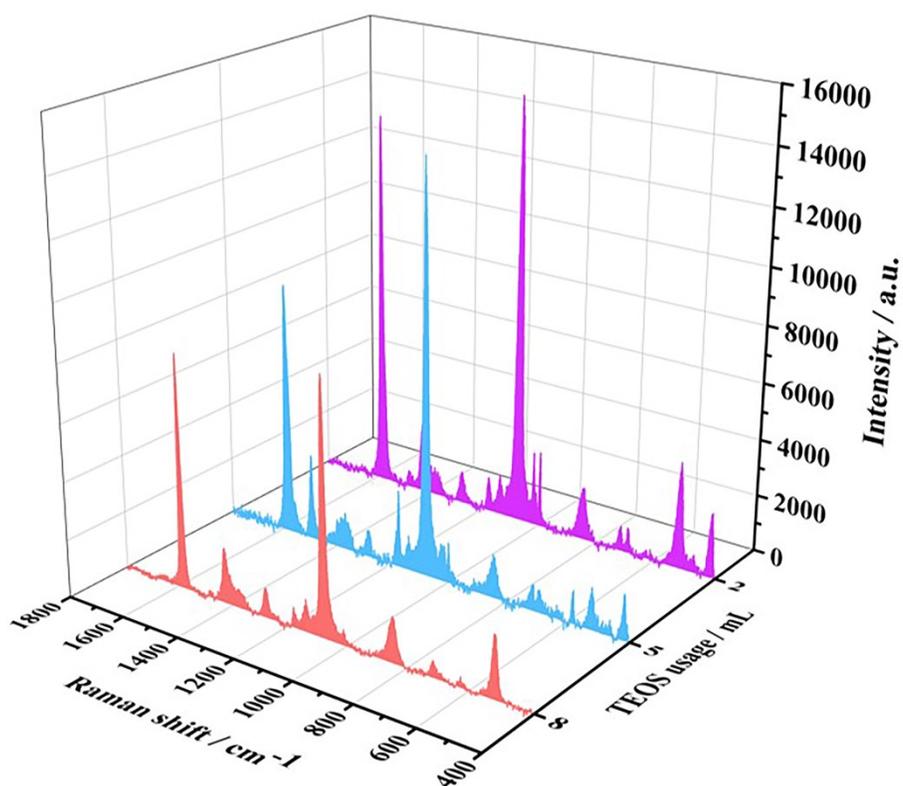


Fig. S2 SERS spectra of Au@SiO₂ SERS nanotags synthesized with different TEOS dosages.

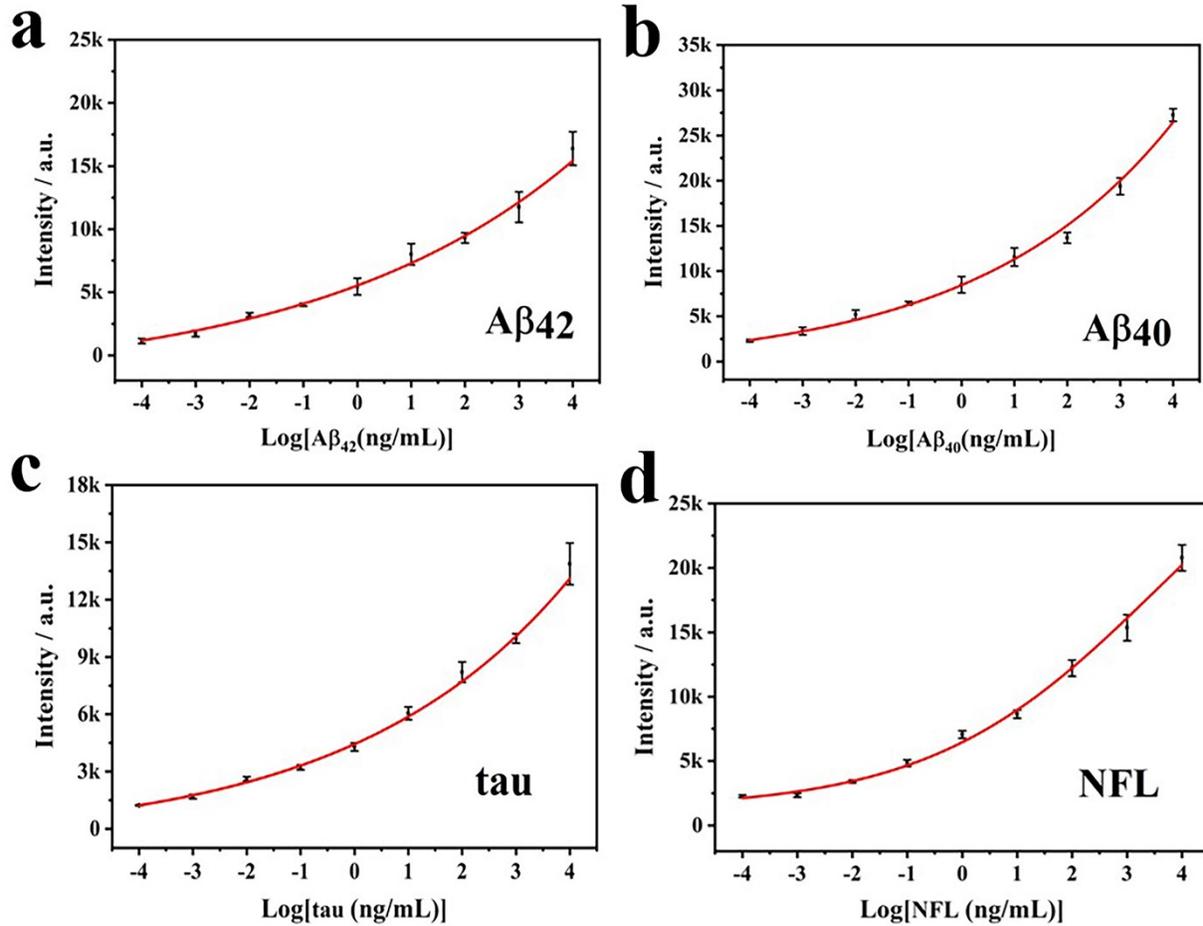


Fig. S3 Dose-response curves of four AD biomarkers. (a) $A\beta_{42}$ (drawn with the Raman intensities at 1079 cm^{-1} on the T_1 line). (b) $A\beta_{40}$ (drawn with the Raman intensities at 1330 cm^{-1} on the T_1 line). (c) tau (drawn with the Raman intensities at 1079 cm^{-1} on the T_2 line). (d) NFL (drawn with the Raman intensities at 1330 cm^{-1} on the T_2 line).