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Water-Soluble Gold Nanoparticles Protected by Fluorinated Amphiphilic Thiolates

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SUPPORTING INFORMATION

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SUPPORTING INFORMATION

a)

b)

Figure S1. a) TEM image and b) histogram of cluster sizes 2.7 nm for a sample of MPC-F8-PEG with a thiol **1**:Au molar ratio 2:1.

Figure S2. TGA analysis of MPC-F8-PEG prepared with a thiol **1**:Au ratio 2:1.

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Figure S3. Uv-visible spectrum (MeOH, $c = 0.1$ mg/mL) of MPC-F8-PEG (thiol 1: Au molar ratio 2:1).

Figure S4. IR spectra of thiol 1 (neat) and MPC-F8-PEG (CDCl_3 solution).

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Figure S5. a) ^{19}F -NMR (CDCl_3 , 300 MHz) of AcS-F8-PEG and b) ^{19}F -NMR (CDCl_3 , 300 MHz) of MPC-F8-PEG.

Figure S6. Plot of the ratio between the concentration of **6** partitioned in the monolayer and that of the free species as a function of [HS-F8-PEG] bound to the gold.

SUPPORTING INFORMATION

Figure S7. ^1H -NMR (CDCl_3 , 400 MHz) of MMPC-C8-TEG/F8-PEG.