

Supporting Information for:

**Formation of Photoresponsible Gold Nanoparticle
Networks *via* Click Chemistry**

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1. Characterization of N₃-GNP

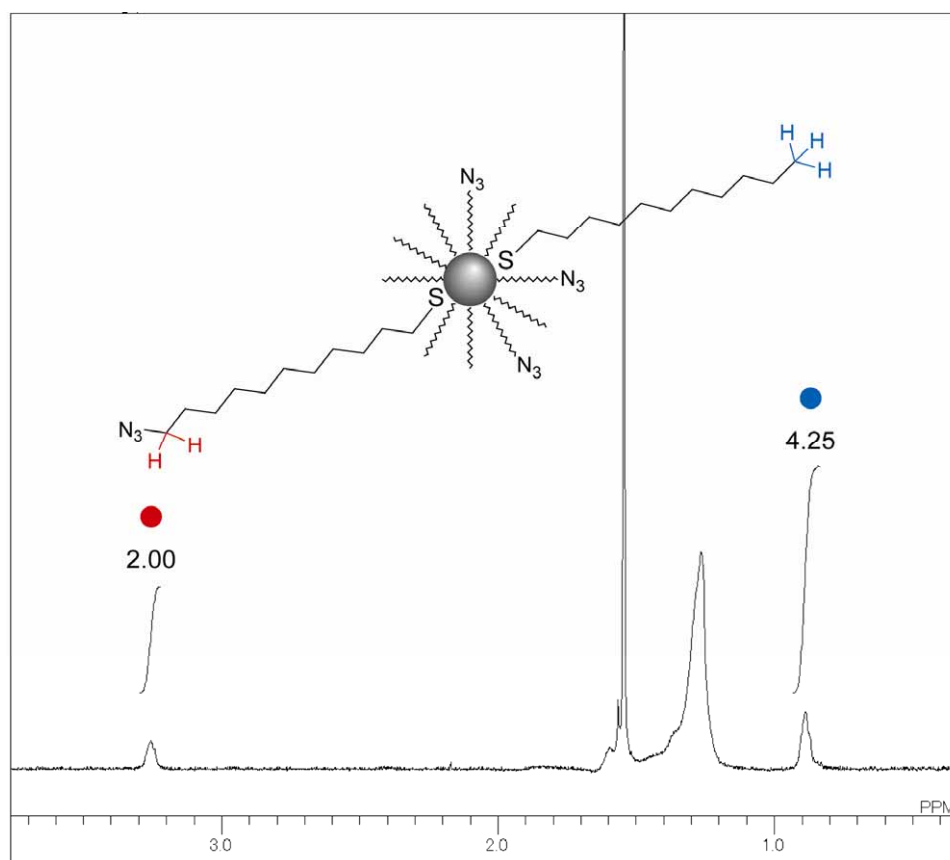


Figure S1. Magnification view of ^1H NMR spectrum of $\text{N}_3\text{-GNP}$ in CDCl_3 .

2. Characterization of the GNP network

The GNP networks were successfully formed by comparing the IR spectra of model compounds (**m1** and **m2**) and GNP networks (**GNP1** and **GNP2**).

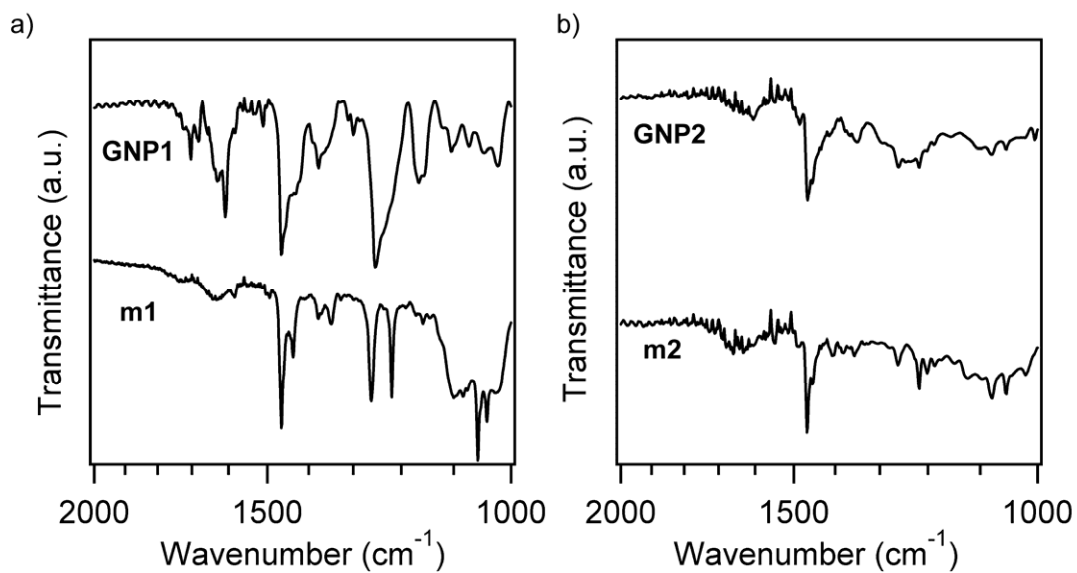


Figure S2. FT-IR absorption spectra of (a) **GNP1** and its model compound, **m1** and (b) **GNP2** and its model compound, **m2**.