

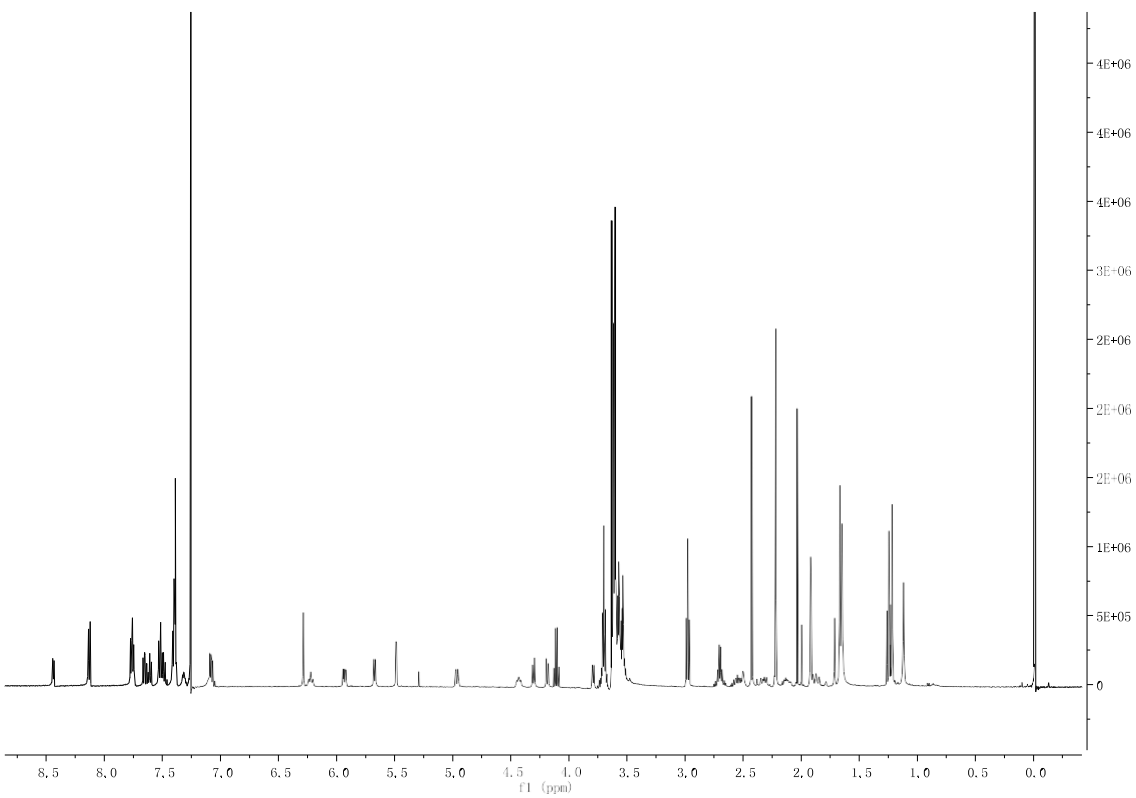
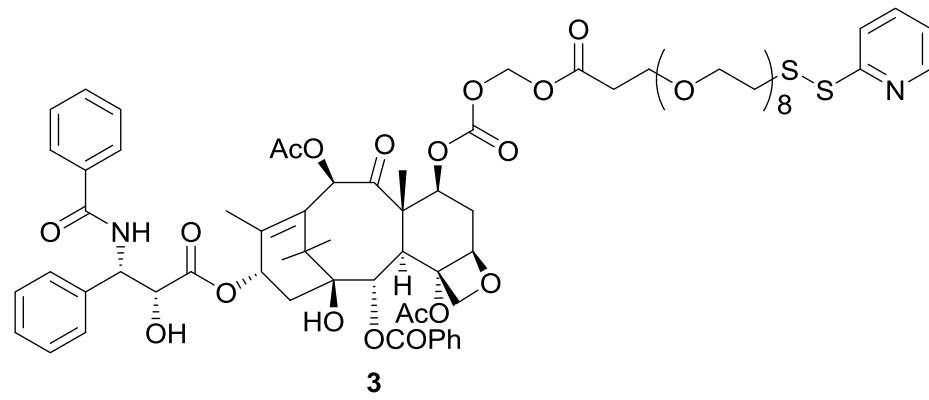
# Synthesis and Evaluation of Paclitaxel-Loaded Gold Nanoparticles for Tumor-Targeted Drug Delivery

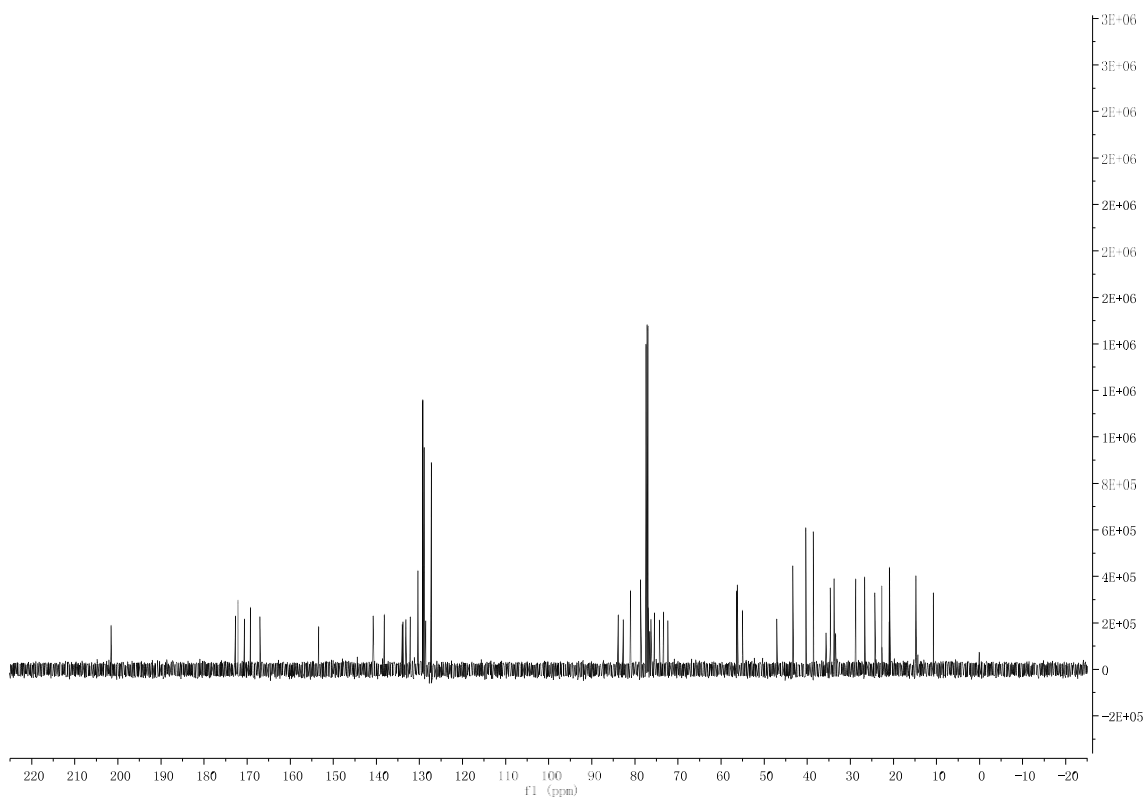
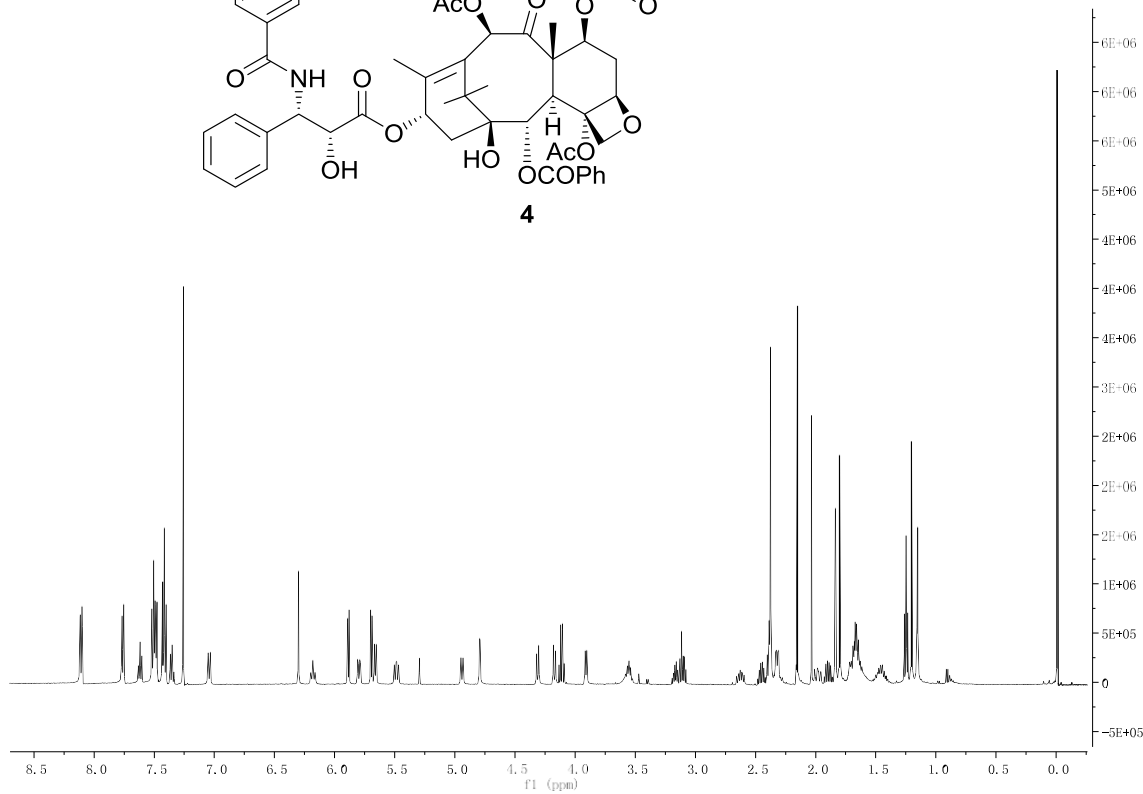
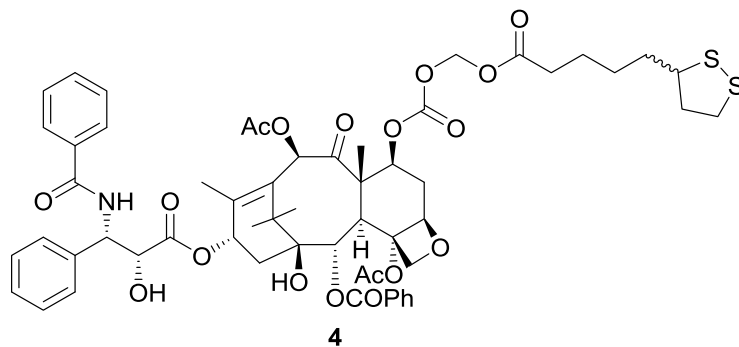
Giulio F. Paciotti, Jielu Zhao, Shugeng Cao, Peggy J. Brodie, Lawrence Tamarkin, Marja Huhta,

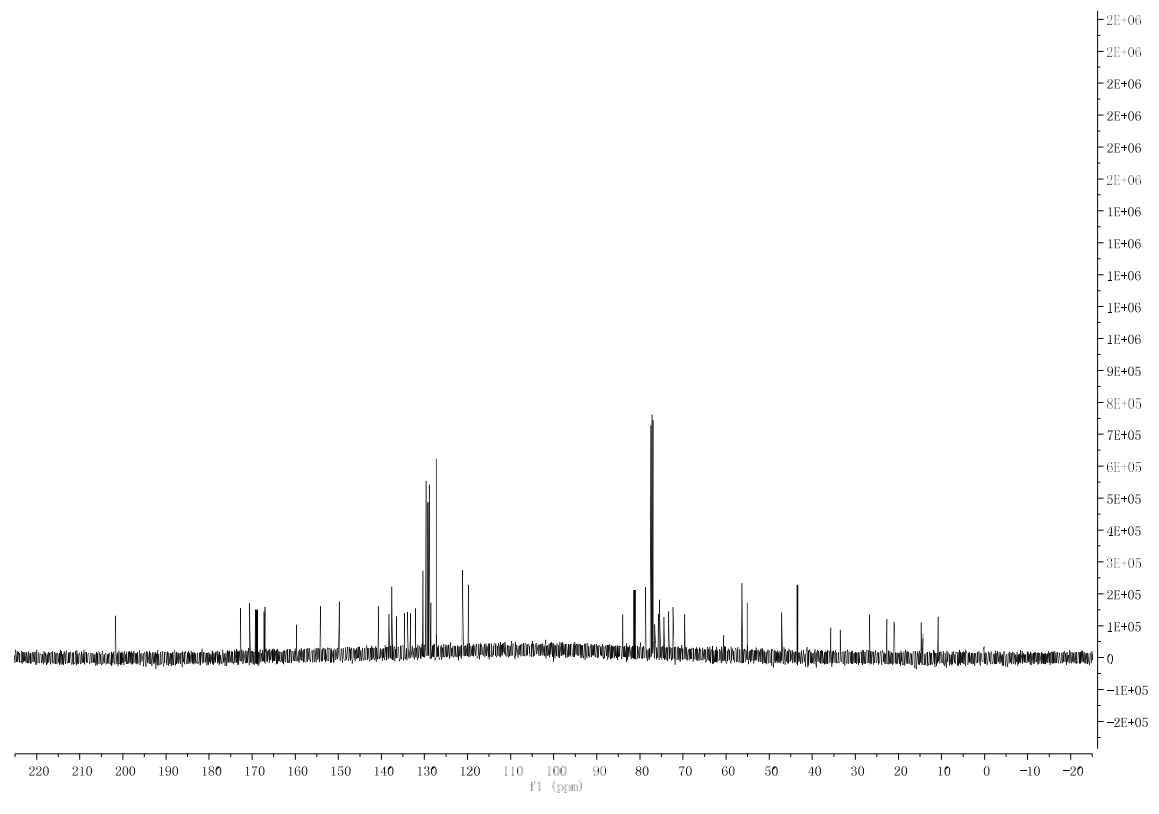
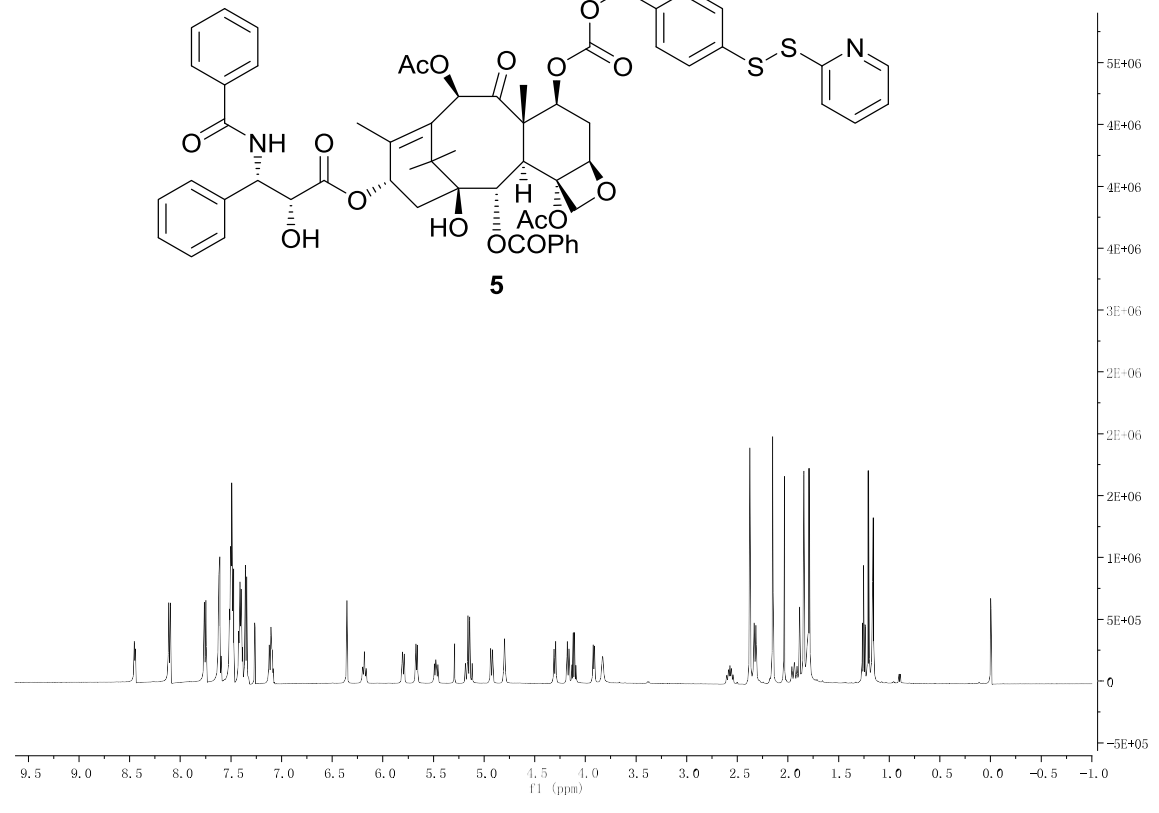
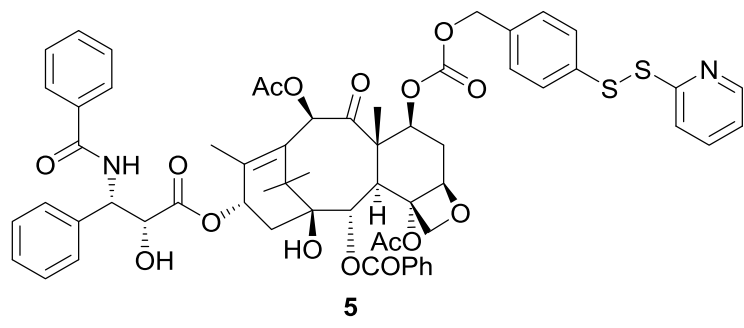
Lonnie D. Myer, Jay Friedman, and David G. I. Kingston

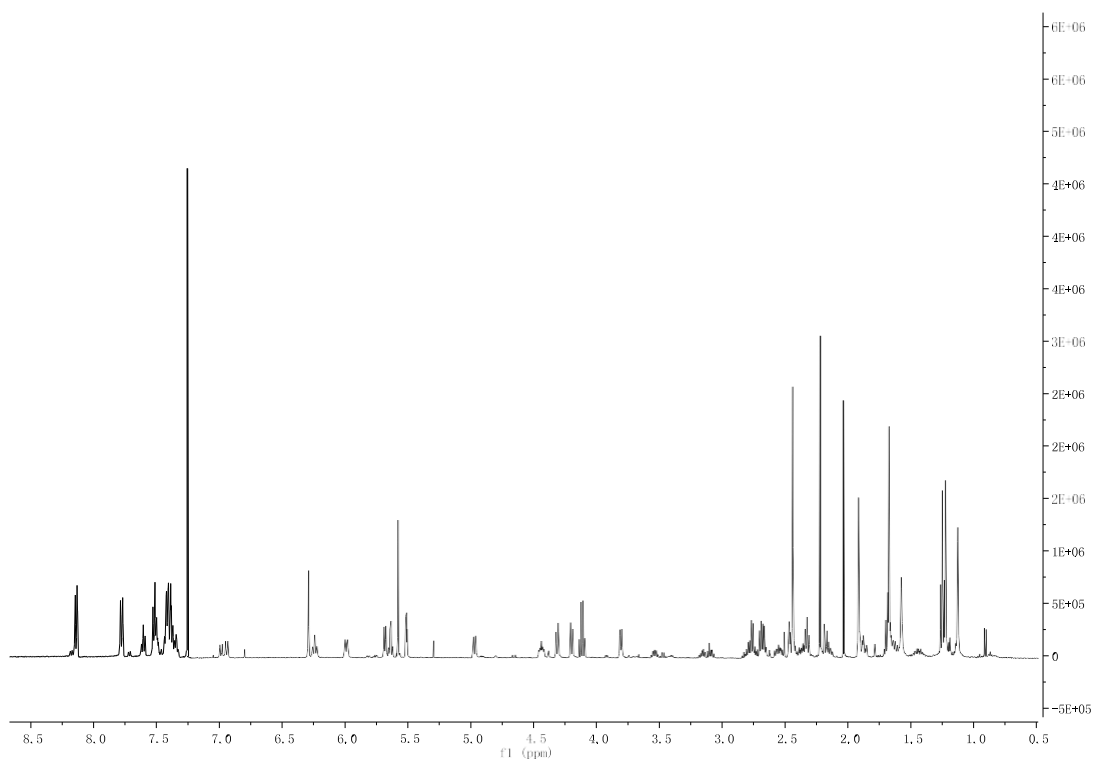
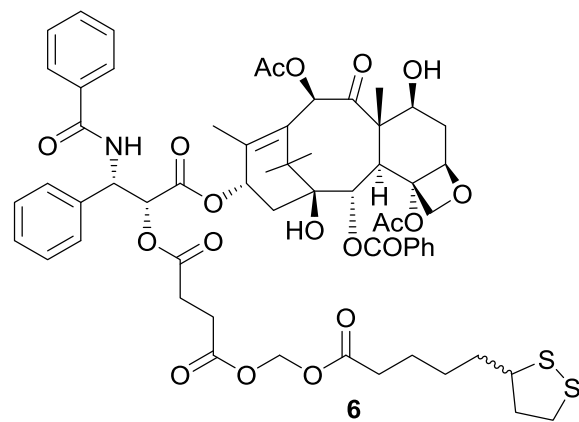
## Supporting Information

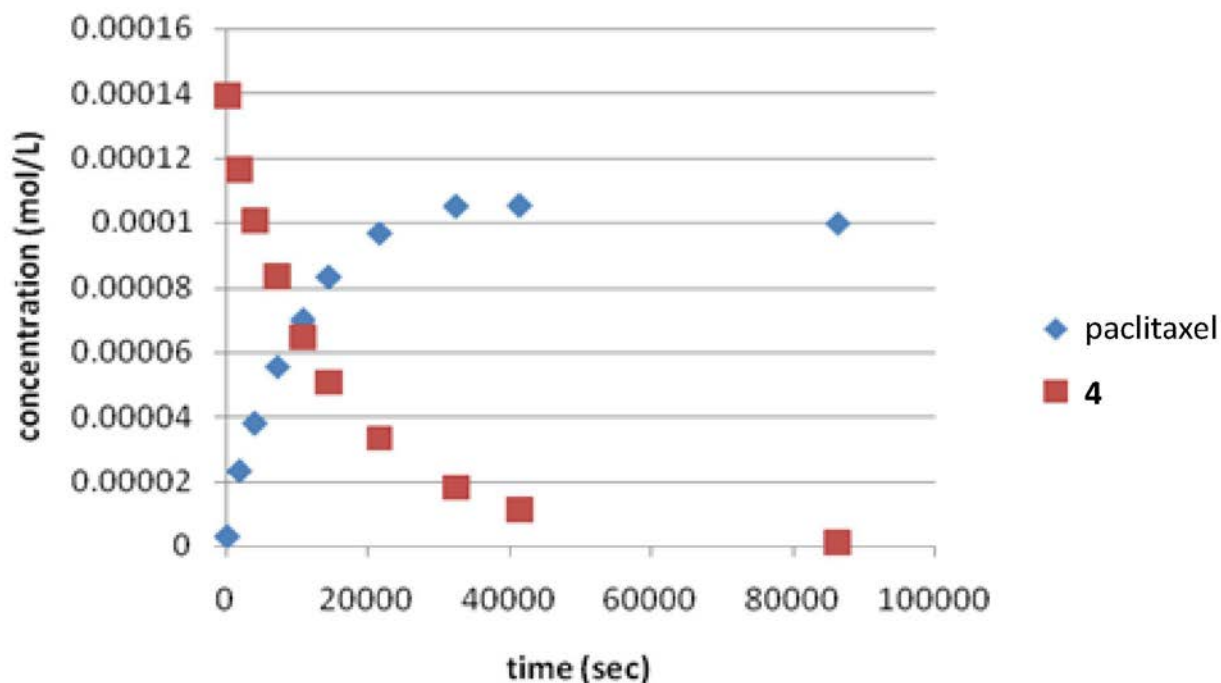
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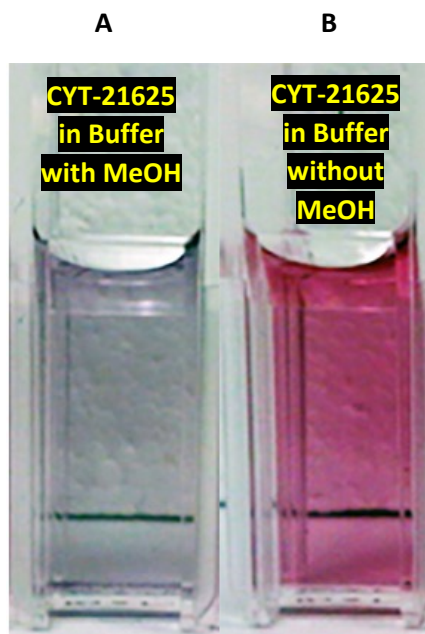




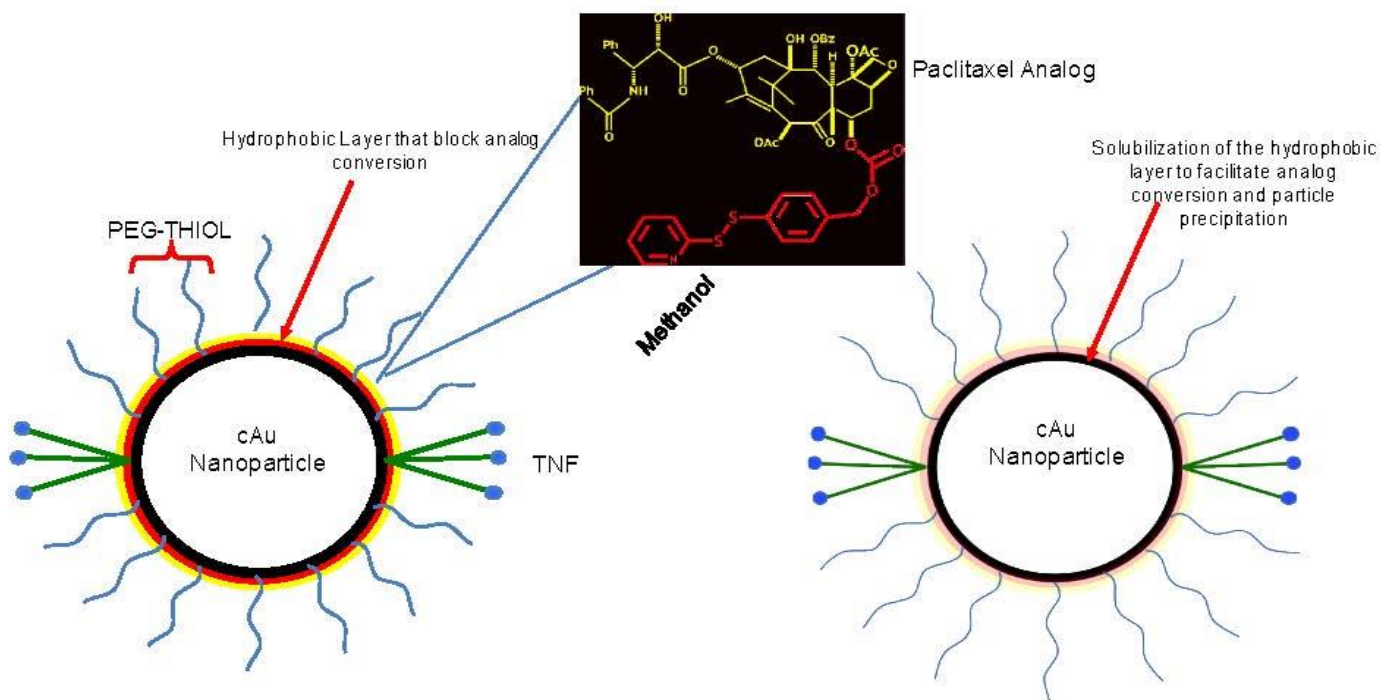




**Figure S1.** Hydrolytic conversion of **4** to paclitaxel at pH 7.4



**Figure S2.** A. Induction of gold nanoparticle agglomeration and precipitation following incubation of CYT-21625 in releasing buffer containing BME+50% MeOH. The image shows that the gold particles (which are typically cherry red in color) undergo agglomeration (the grey/black color; as the particles release surface bound agents (i.e., compound **5**)). B. The same experiment conducted in the absence of MeOH. Here the particles appear to be monodispersed and are not undergoing agglomeration.



**Figure S3.** Hypothetical hydrophobic layer of paclitaxel on the gold nanoparticle surface reducing susceptibility to hydrolytic or reductive conversion to paclitaxel. Addition of MeOH solubilizes this layer and facilitates paclitaxel release.