

**Fe₃O₄@mSiO₂ Core-Shell Nanocomposite Capped with Disulfide
Gatekeepers for Enzyme-Sensitive Controlled Release of Anti-Cancer
Drug**

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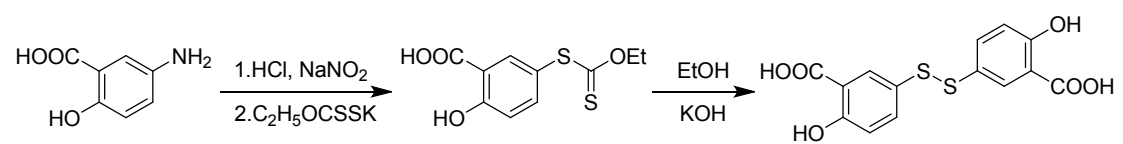
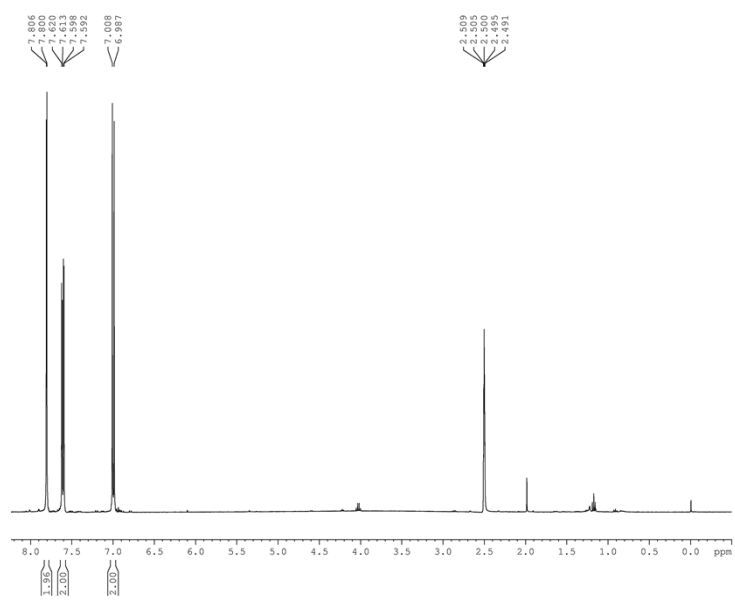


Fig. S1 Synthetic route for the disulfide



$^1\text{H-NMR}$ (DMSO, 400MHz): 7.80 (d, $J=2.4\text{Hz}$, 2H), 7.60 (dd, $J_1=8.6\text{Hz}$, $J_2=2.4\text{Hz}$, 2H), 7.00(d, $J=8.6\text{Hz}$, 2H).

Fig. S2 The NMR spectrum of as-synthesized R-S-S-R in DMSO.