

Supplementary Materials

Manganese (II) Complex of 1,4,7-Triazacyclononane-1,4,7-Triacetic Acid (NOTA) as a Hepatobiliary MRI Contrast Agent

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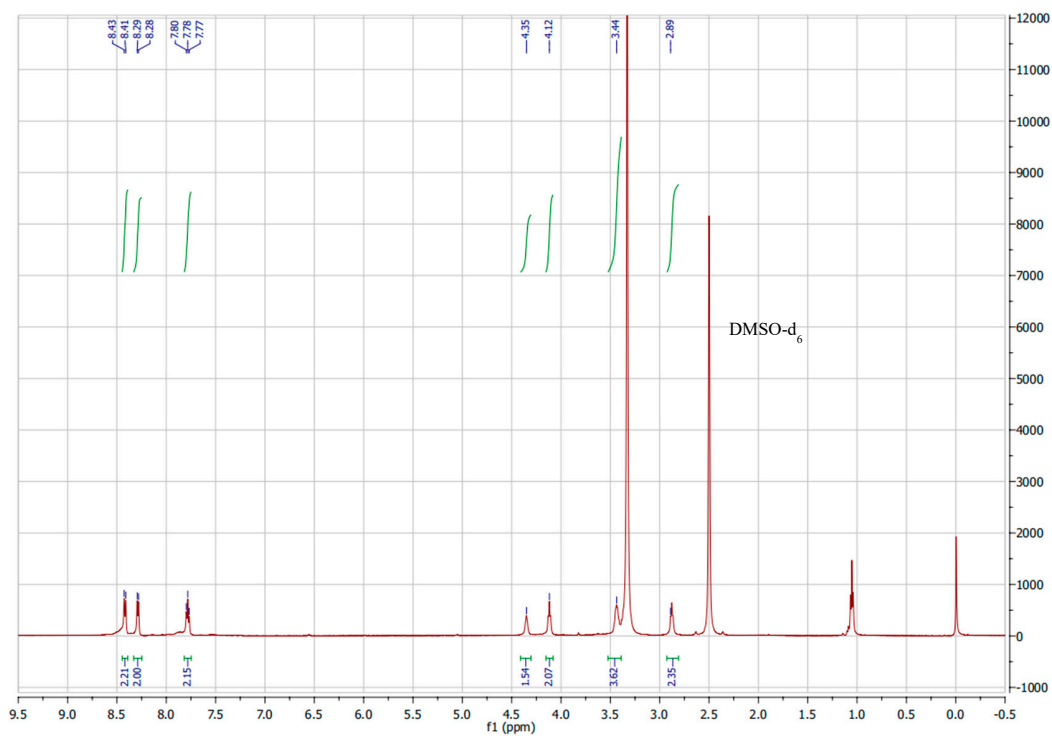


Figure S1. ¹H NMR spectrum of compound 2.

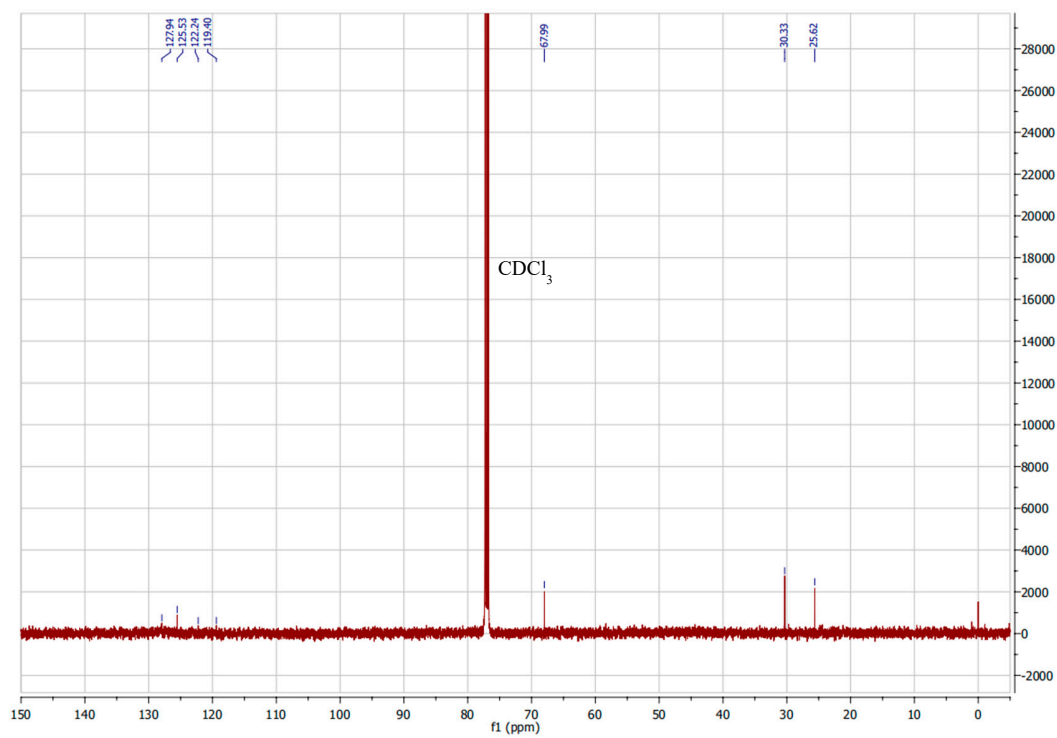


Figure S2. ¹³C NMR spectrum of compound 2.

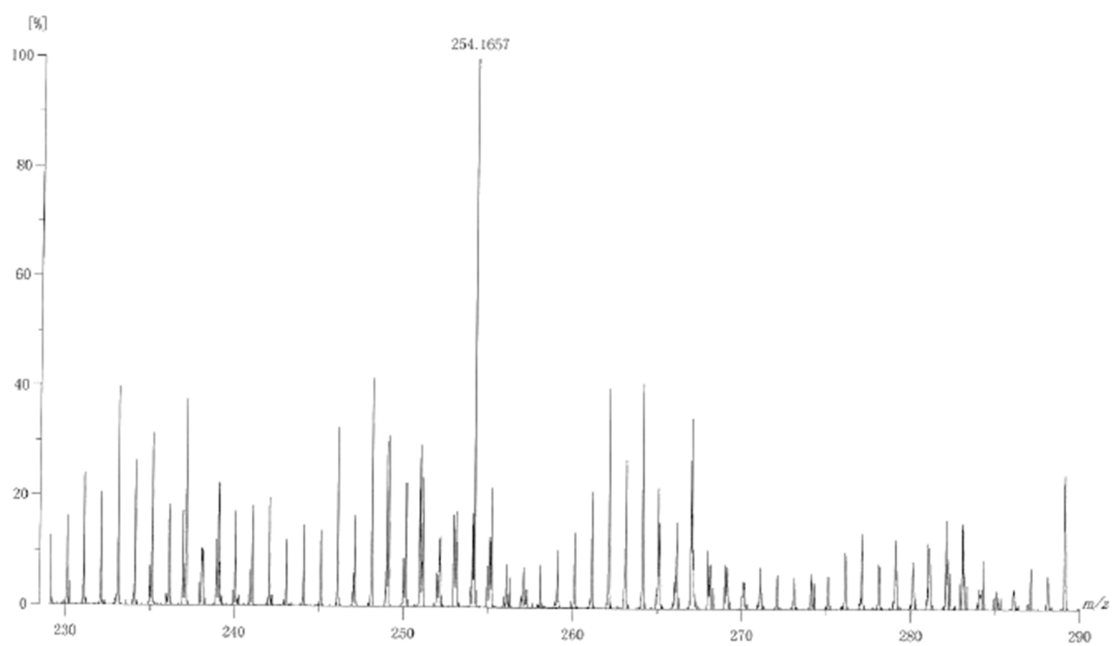


Figure S3. HR-FAB-MS spectrum for compound 2.

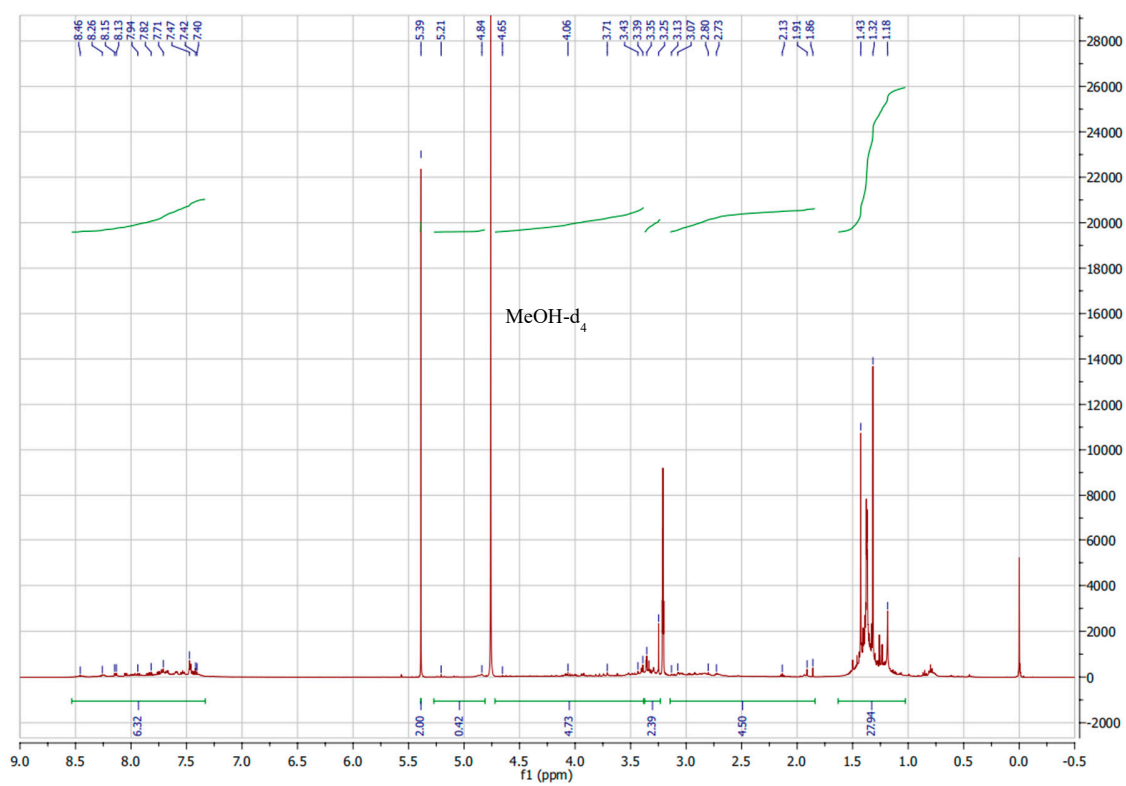


Figure S4. ^1H NMR spectrum of compound 3.

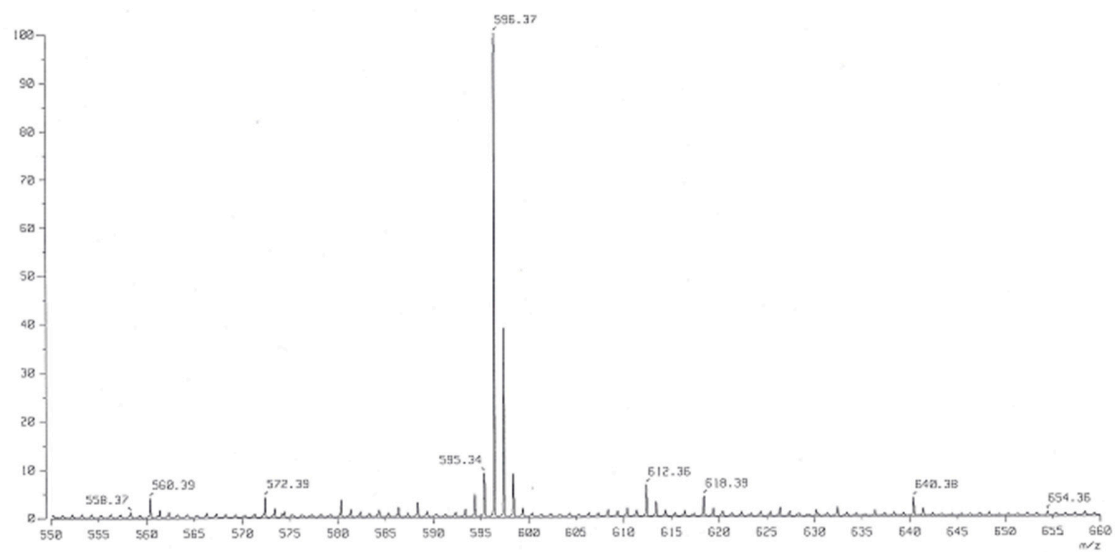


Figure S5. HR-FAB-MS spectrum for compound 3.

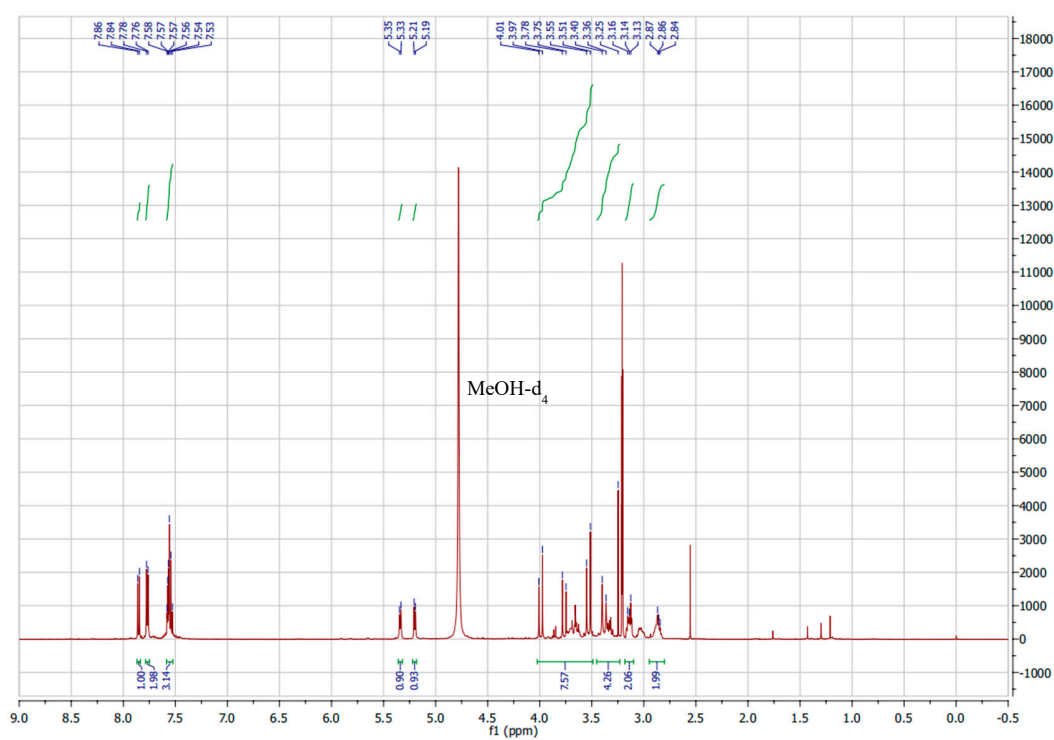


Figure S6. ^1H NMR spectrum of NOTA-NP.

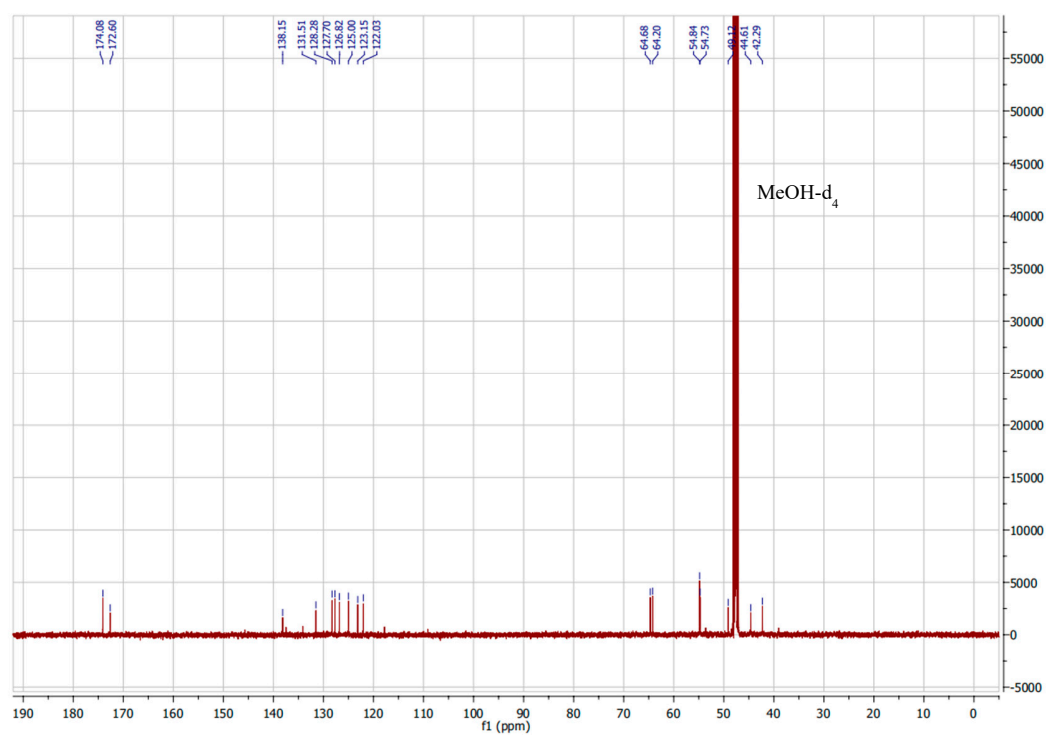


Figure S7. ¹³C NMR spectrum of NOTA-NP.

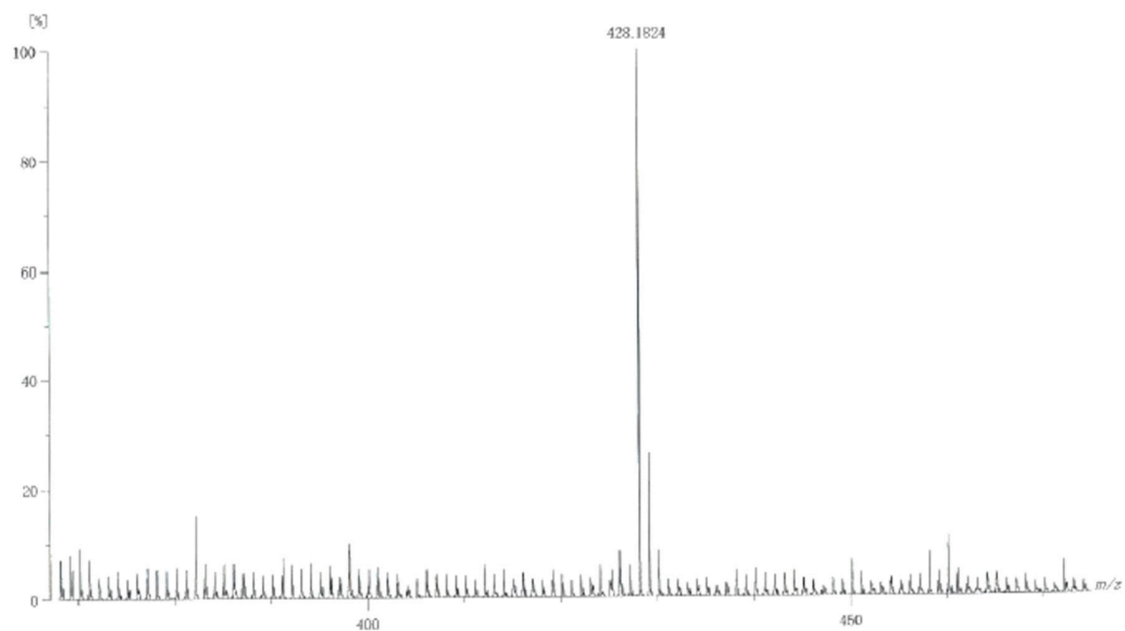


Figure S8. HR-FAB-MS spectrum of compound NOTA-NP.

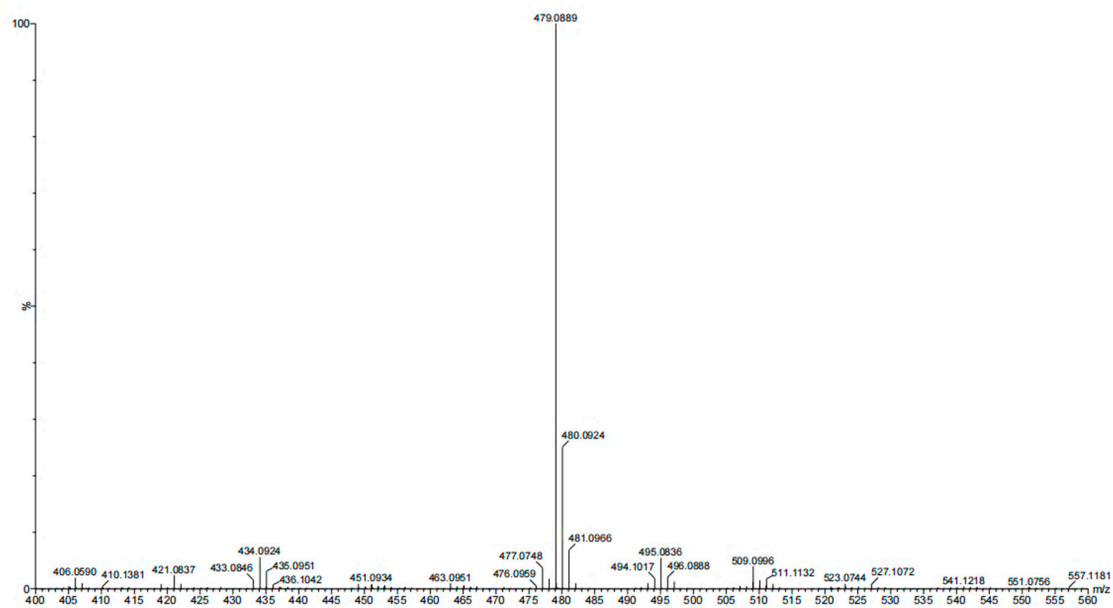


Figure S9. HR-ESI-MS spectrum of compound **Mn-NOTA-NP**.

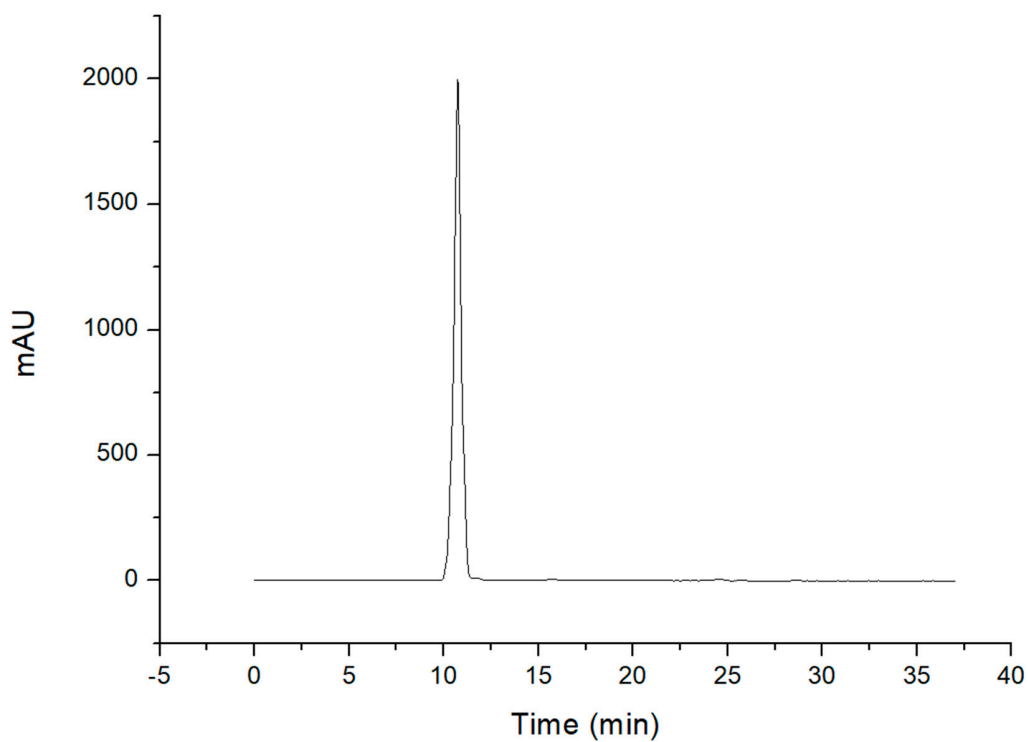


Figure S10. HPLC spectrum of compound **Mn-NOTA-NP** at 254 nm detection with 96.05% purity.

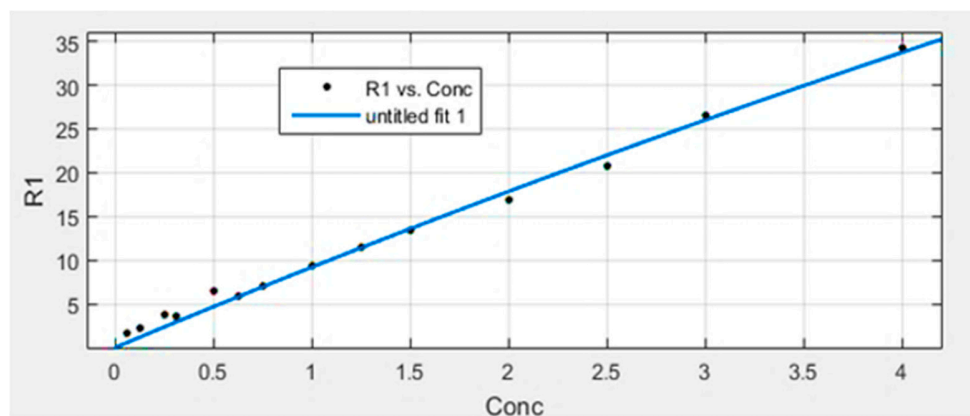


Figure S11. Proton longitudinal paramagnetic relaxation rates of **Mn-NOTA-NP** as a function of Mn concentration in an aqueous solution of HSA (0.67 mM) at 64 MHz and 293 K.

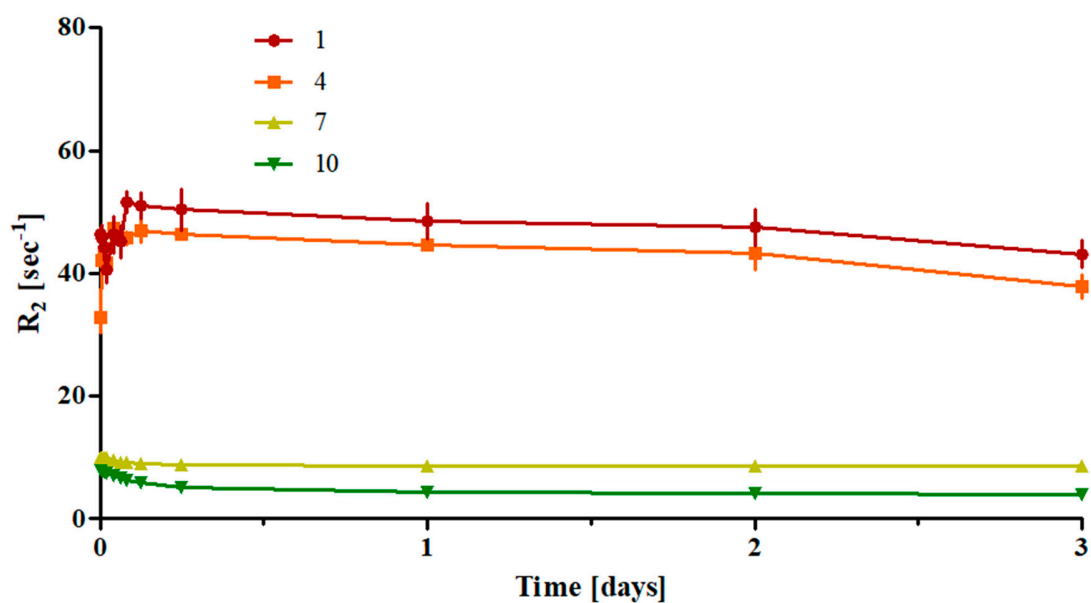


Figure S12. Stability of **Mn-NOTA-NP** ([Mn] = 1.0 mM) in different pH buffer solutions as a function of incubation time at 3 T and 293 K.

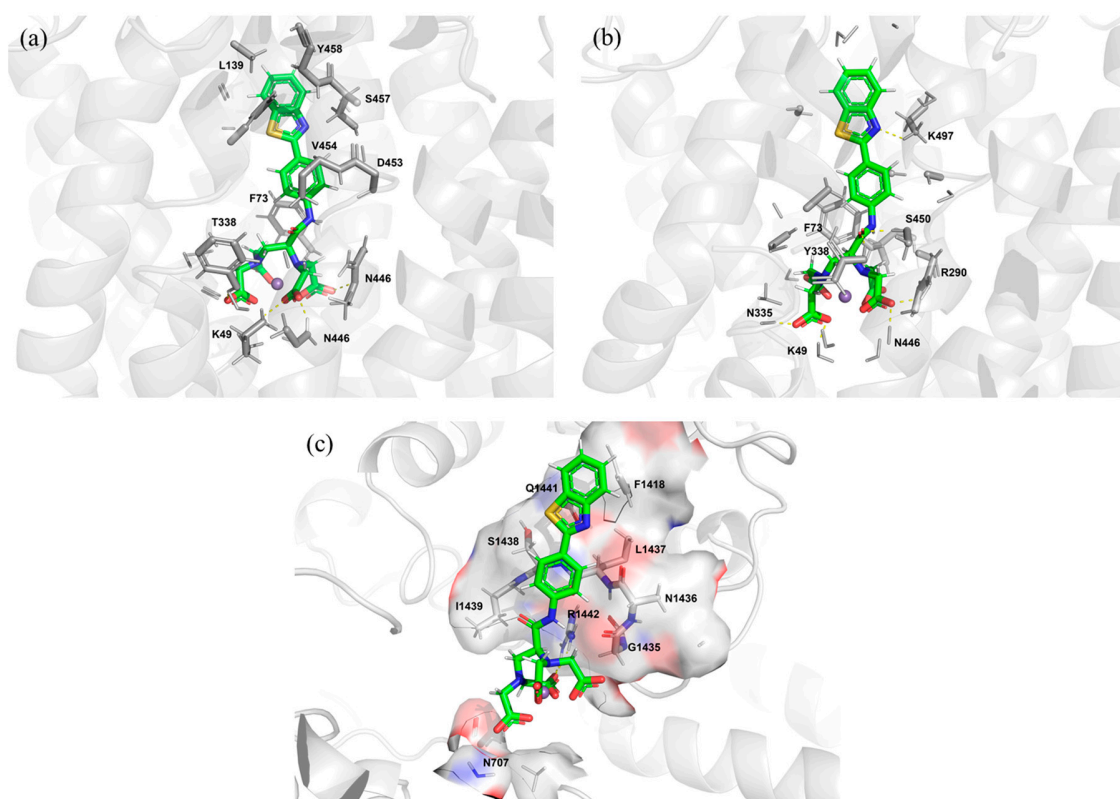


Figure S13. Schematic representations of variable interactions between Mn-EDTA-BTA and (a) OATP1B1, (b) OATP1B3, and (c) MRP2 transporters. The yellow line represents hydrogen bonds.

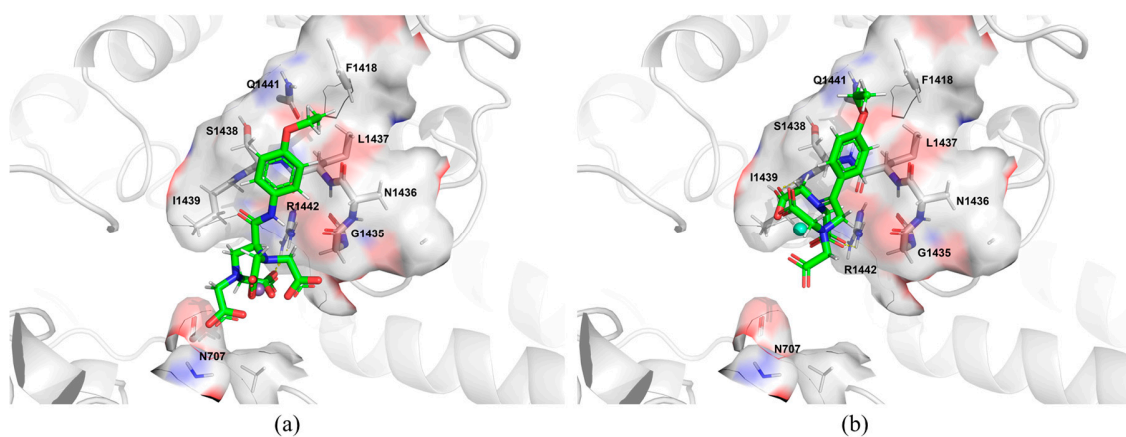


Figure S14. Schematic representations of variable interactions between (a) Mn-EDTA-EOB and (b) Gd-DTPA-EOB with MRP2 transporter. The yellow line represents hydrogen bonds.