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Journal Name

ARTICLE

Supplementary materials: **The influence of Ho^{3+} doping on ^{13}C DNP in the presence of BDPA**

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Supplementary Figures:

Supplementary Figure S1:

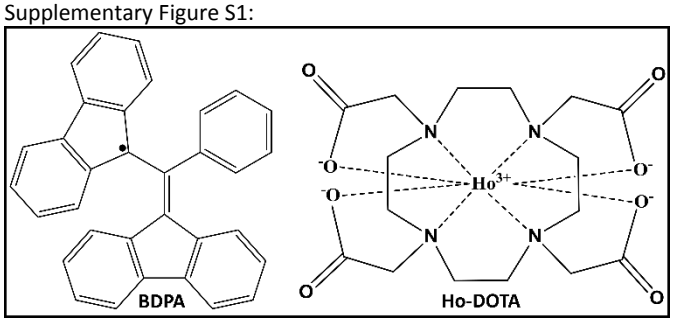

Figure S1. Structures of the BDPA and Ho-DOTA complex discussed in this work

Supplementary Figure S2:

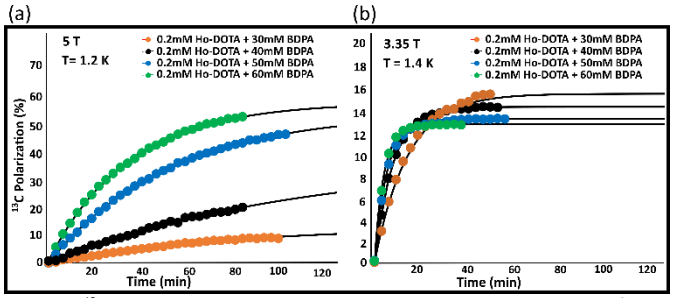

Figure S2. ^{13}C DNP polarization as a function of irradiation time for 25 µl of 1:1 (v/v) sulfolane/[1-^{13}C]pyruvic acid in the presence of various concentrations of BDPA radical with 0.2 mM Ho-DOTA for **a)** at 5 T and **b)** 3.35 T. The samples were polarized at the positive polarization peak with a 100 mW microwave source. At 5 T, the sample consisting 60 mM BDPA doped with 0.2 mM of Ho-DOTA shows higher solid-state polarization, whereas at 3.35 T the 30 mM BDPA doped with 0.2 mM of Ho-DOTA produced the highest polarization.

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