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Supplementary Information

Gd^{3+} Spin Labeling for Distance Measurements by Pulse EPR Spectroscopy

Daniella Goldfarb, Department of Chemical Physics, Weizmann Institute of Science, Rehovot 76100, Israel

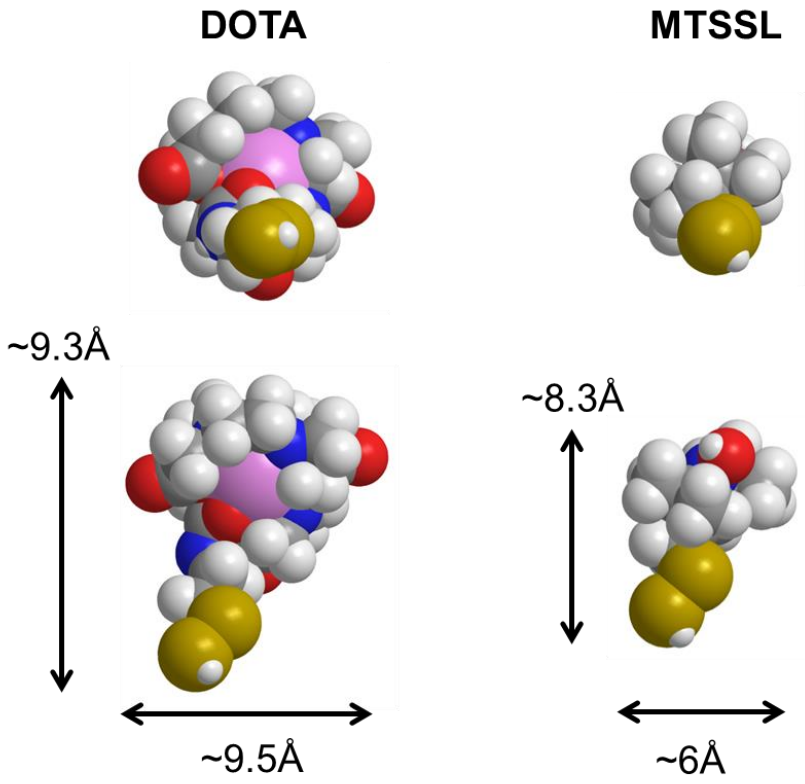

Figure S1. Comparison of the size of the MTSSL and DOTA tags

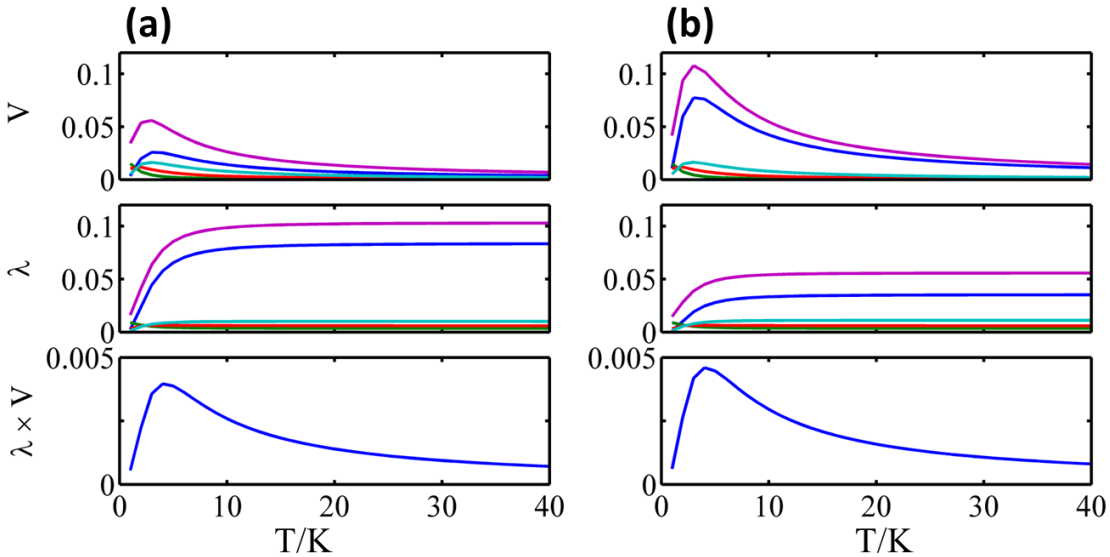

Figure S2. The individual V_i (top), λ_i (center) and the product $\lambda_i V_i$ (bottom) along with their sum, yielding λ,V and λV calculated according to Eqs. 10 and 11 for spectrometer frequency of 34 GHz, D_G=1500 MHz and t_p=15 ns, t_o=20,40,40 ns for the following cases: (a) Pump pulses on the central transition and observer pulses 75 MHz higher and (b) Observer pulses on the central transition and pump pulses 75 MHz higher. Color codes: |-1/2>→|1/2> - blue, |-3/2>→|-1/2> and |1/2>→|3/2> - light blue, |-5/2>→|-3/2> and |3/2>→|5/2> - red, |-7/2>→|-5/2> and |5/2>→|7/2> - green, sum – purple.