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Supporting Information

Synthesis, Characterization and Cellular Localization of Cytotoxic Constitutional Organometallic Isomers of Rhenium Delivered on a Cyanocobalmin Scaffold.

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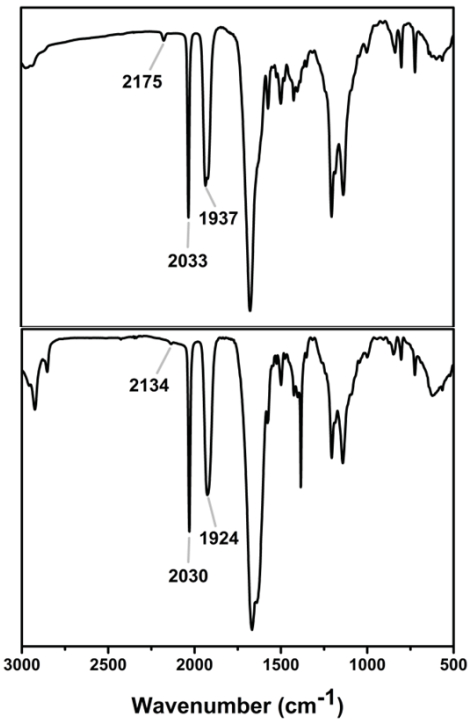

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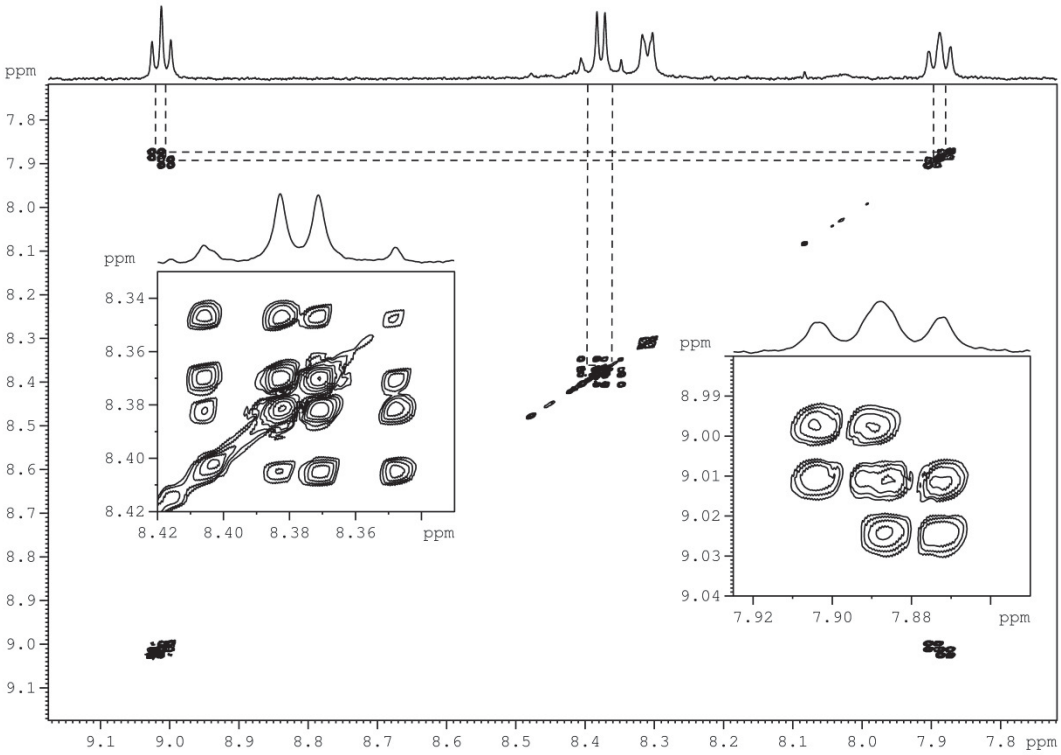

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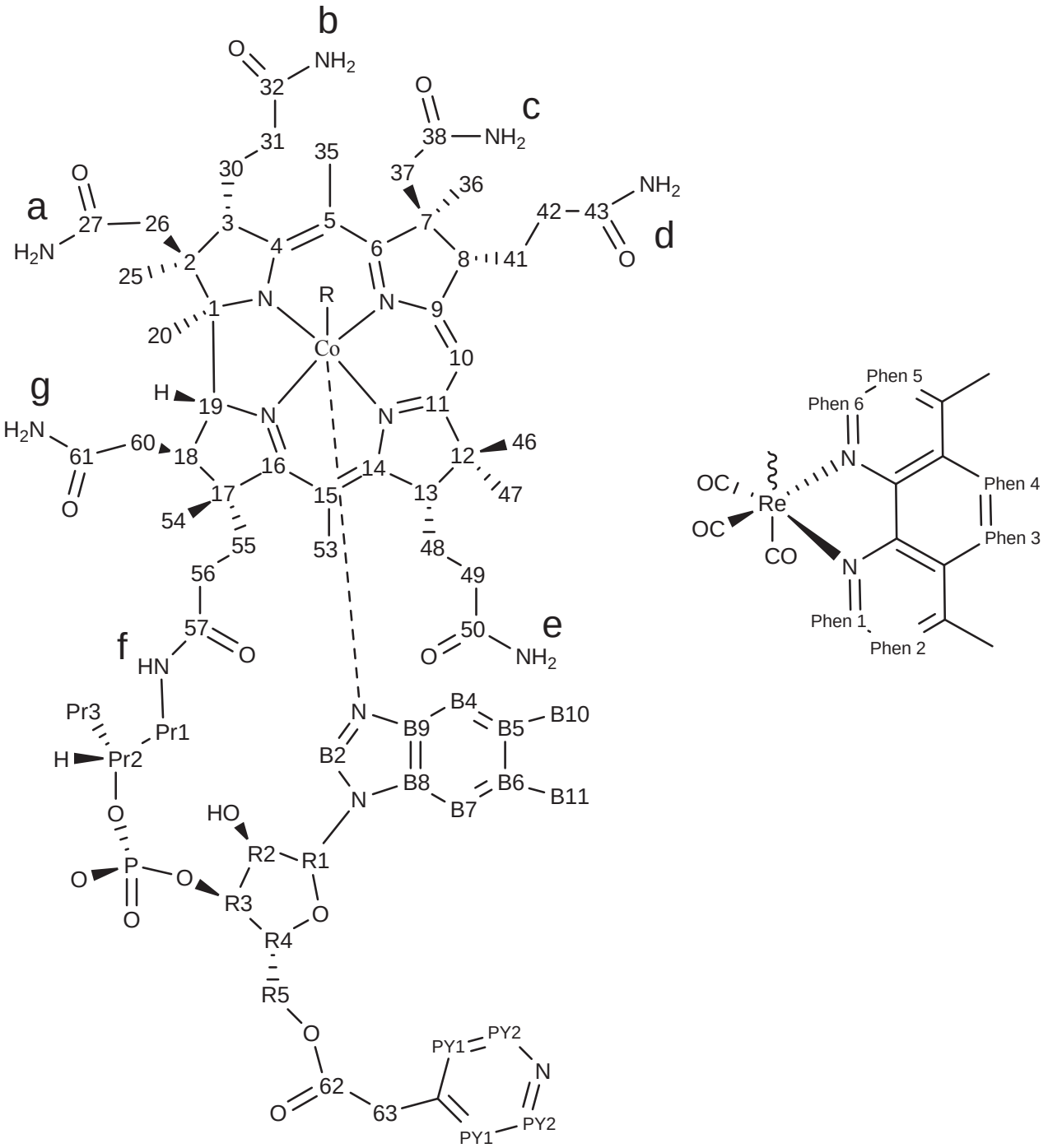

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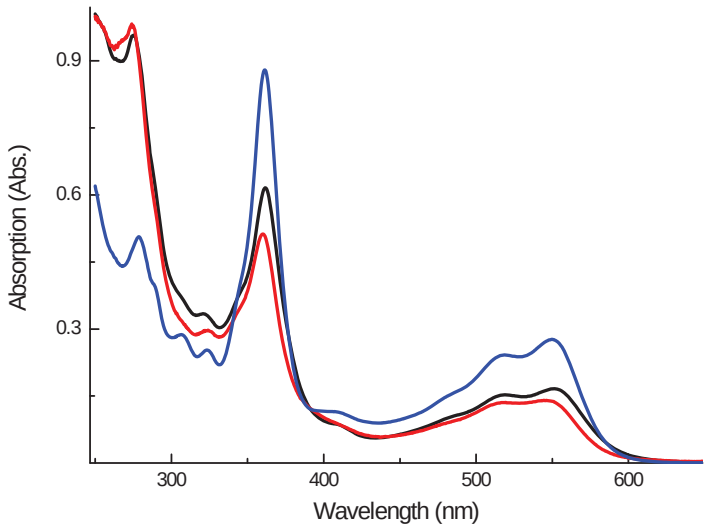
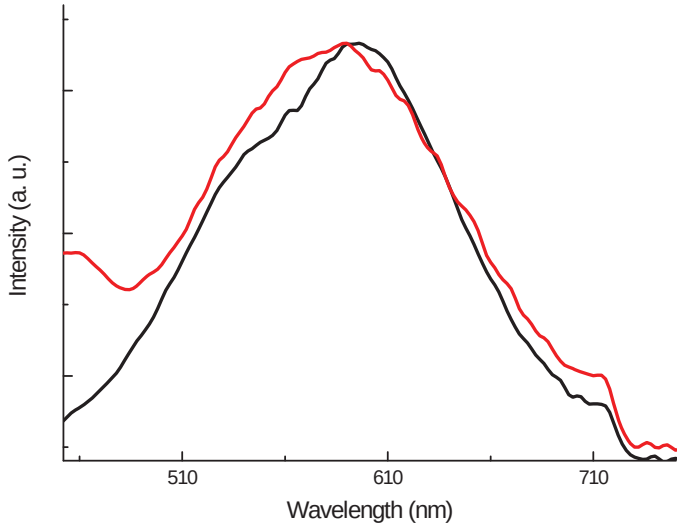


Figure 4S. UV-Vis spectra of complexes **1** (black), **2** (red) and vitamin B_{12} in MeOH.



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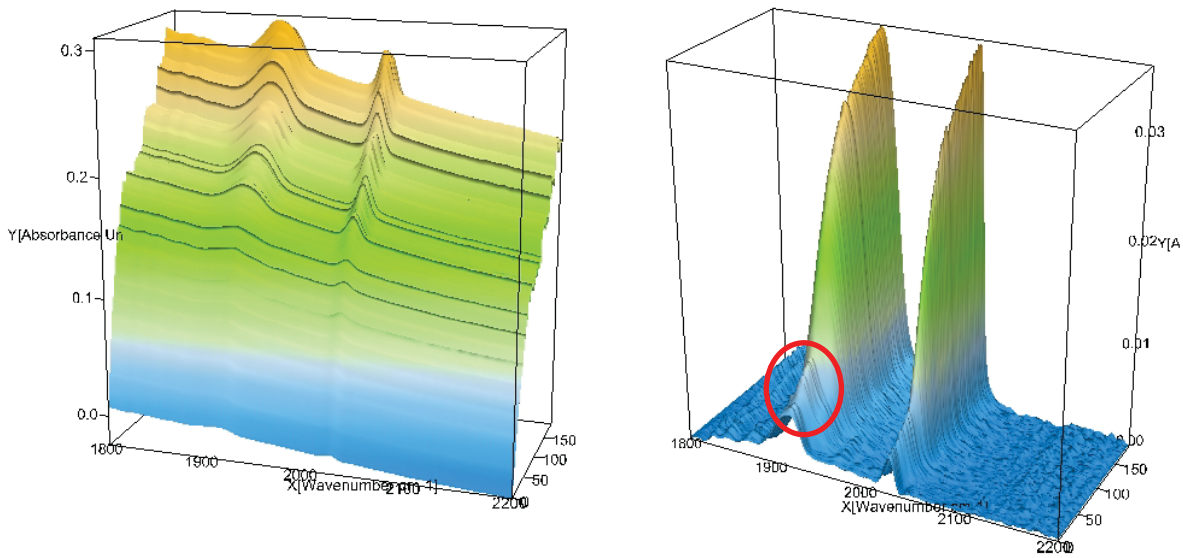

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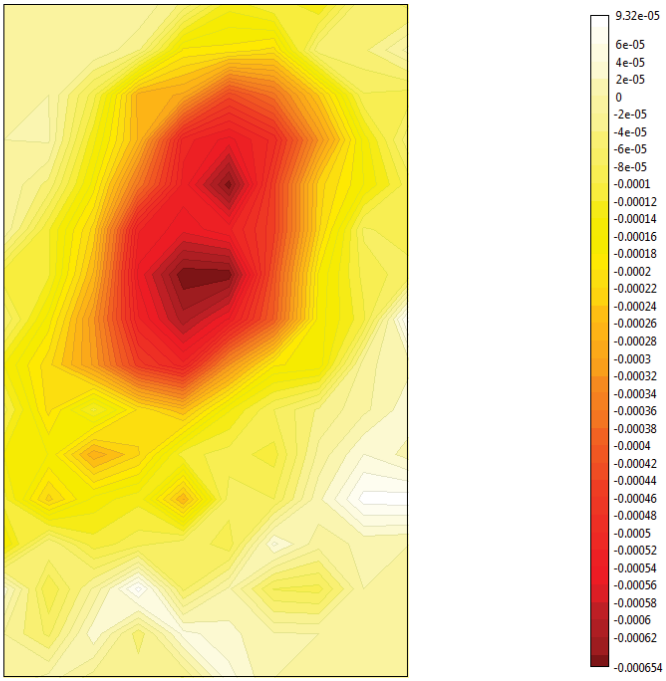

Figure 7S. IR map of the A1 carbonyl stretching vibration at 2028 cm^{-1} with the experimental scale of the integrated intensity of the 2nd derivative.

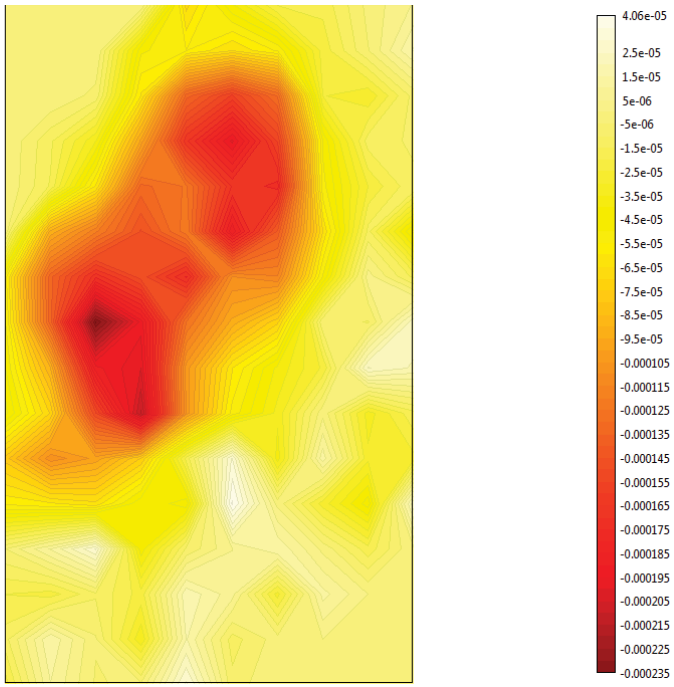

Figure 8S. IR map of the lipid absorption at 2852 cm^{-1} with experimental scale of the integrated intensity of the 2nd derivative.

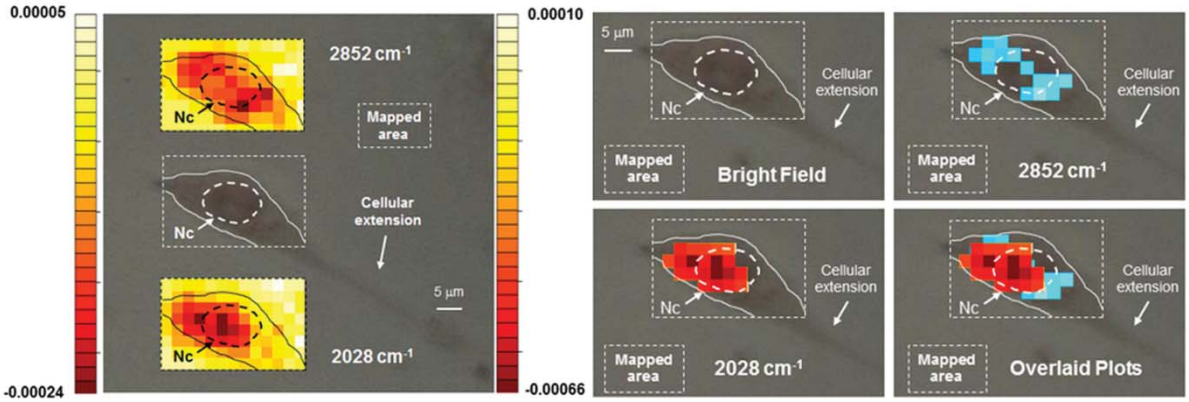

Figure 9S. Optical images of a 3T3 fibroblast incubated with **2** (300 µM concentration). Left: top and bottom inserts show pixel images reconstructed from mapping the intensities of the 2nd derivative of the lipid absorption at 2852 cm^{-1} and the A1 carbonyl stretching vibration at 2028 cm^{-1} respectively. The scale represents relative units of 2nd derivative of absorbance with the left scale referring to the top insert. Nc = cell nuclear area identified as previously described. Right: same cell with maxima of reconstructed integrated pixel intensities (same scale as to the left with minima set to -0.0001 and -0.0003 for the 2852 cm^{-1} and the 2028 cm^{-1} vibration respectively) of the 2nd derivative of the same lipid absorption and the A1 stretching frequency finally superimposed in the bottom right panel to highlight the different chemical distribution of the molecular species.