Complexes containing platinum-sulfur-copper motifs are of interest to provide insight into the interactions between cisplatin and sulfur-containing biological molecules. Cisplatin is a chemotherapy agent used since the 1970s to treat reproductive, urinary, and respiratory cancers. The reaction of a platinum(II) phosphine with ethanedithiol in the presence of the copper(I) salt, (CH3CN)4Cu(BF4), yielded a platinum dimer species with no Pt-S-Cu motif in the compound. The dimer consisting of a dithiol bridge was isolated and characterized using <sup>13</sup>C NMR and X-ray crystallography. This poster will discuss the synthesis of this compound as well as further investigation into reaction conditions.