

**SUPPLEMENTARY MATERIAL FOR:**

Title: Synthesis of Metallointercalator-DNA Conjugates on a Solid Support  
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**FIGURE CAPTIONS**

**Figure S1.** (A) Schematic illustration of the N-hydroxysuccinimidyl (NHS) ester of  $[\text{Rh}(\text{phi})_2(\text{bpy}') ]^{3+}$ . (B) Matrix assisted laser desorption ionization (MALDI) time of flight (TOF) mass spectrum of  $[\text{Rh}(\text{phi})_2(\text{bpy}'\text{-NHS}) ]^{3+}$ .

**Figure S2.** HPLC chromatograms of an unmodified (upper trace) and an aminoalkylated (lower trace) 15-mer monitored at 260 nm. HPLC Conditions: C18 stationary phase; 50 mM ammonium acetate, pH 6.5/acetonitrile mobile phase; 0-15 % acetonitrile in 30 min. The aminoalkylated DNA shows a later retention time, consistent with increased hydrophobicity introduced by the linker.

**Figure S3.** HPLC chromatograms for the 3',5'-*bis*-heterometallated oligonucleotide pictured in Figure 9 monitored at 260 nm (top), 390 nm (middle), and 470 (nm) bottom. The 3',5'-*bis*-heterometallated oligonucleotide is the major product, and all eight diastereomers of this material coelute. HPLC Conditions: C18 stationary phase; 50 mM ammonium acetate, pH 6.5/acetonitrile mobile phase; 0-50 % acetonitrile in 75 min.

## Supplementary Material

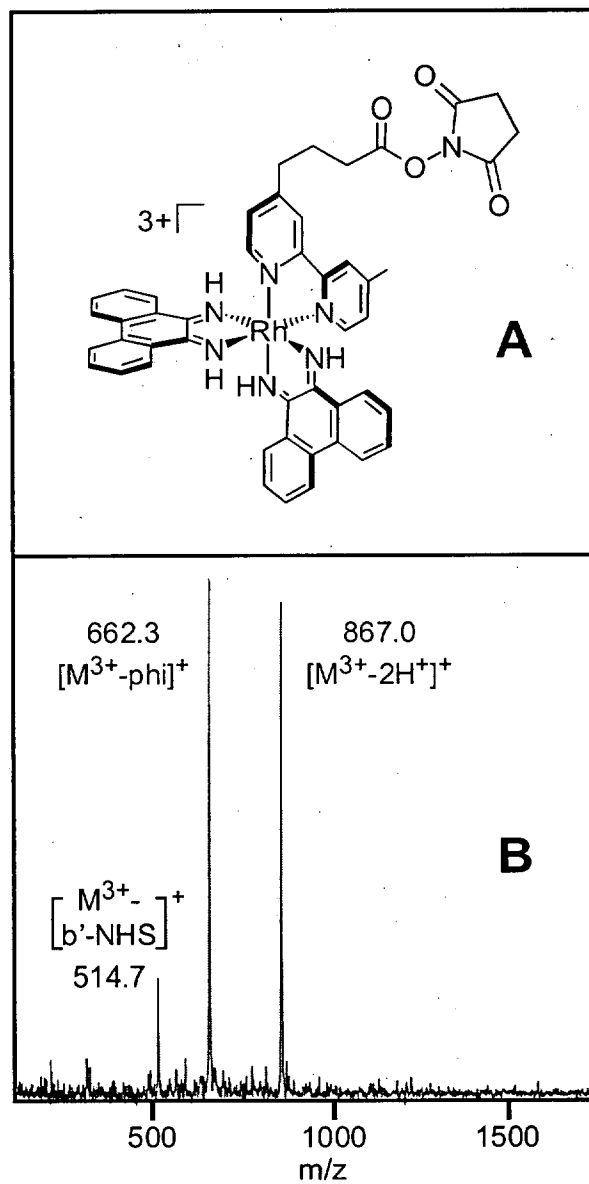


Figure S1

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### Supplementary Material

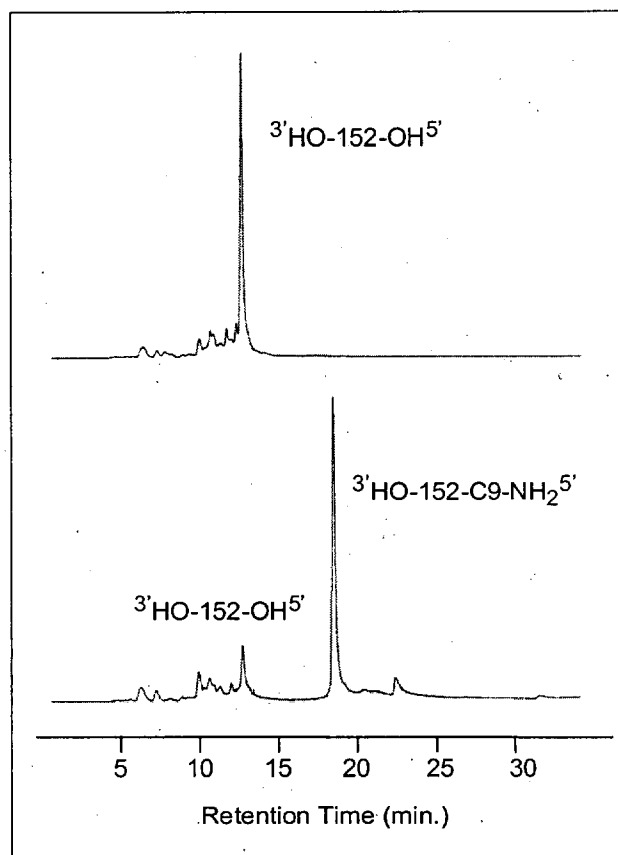


Figure S2

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### 3',5'-bis-heterometalated-DNA

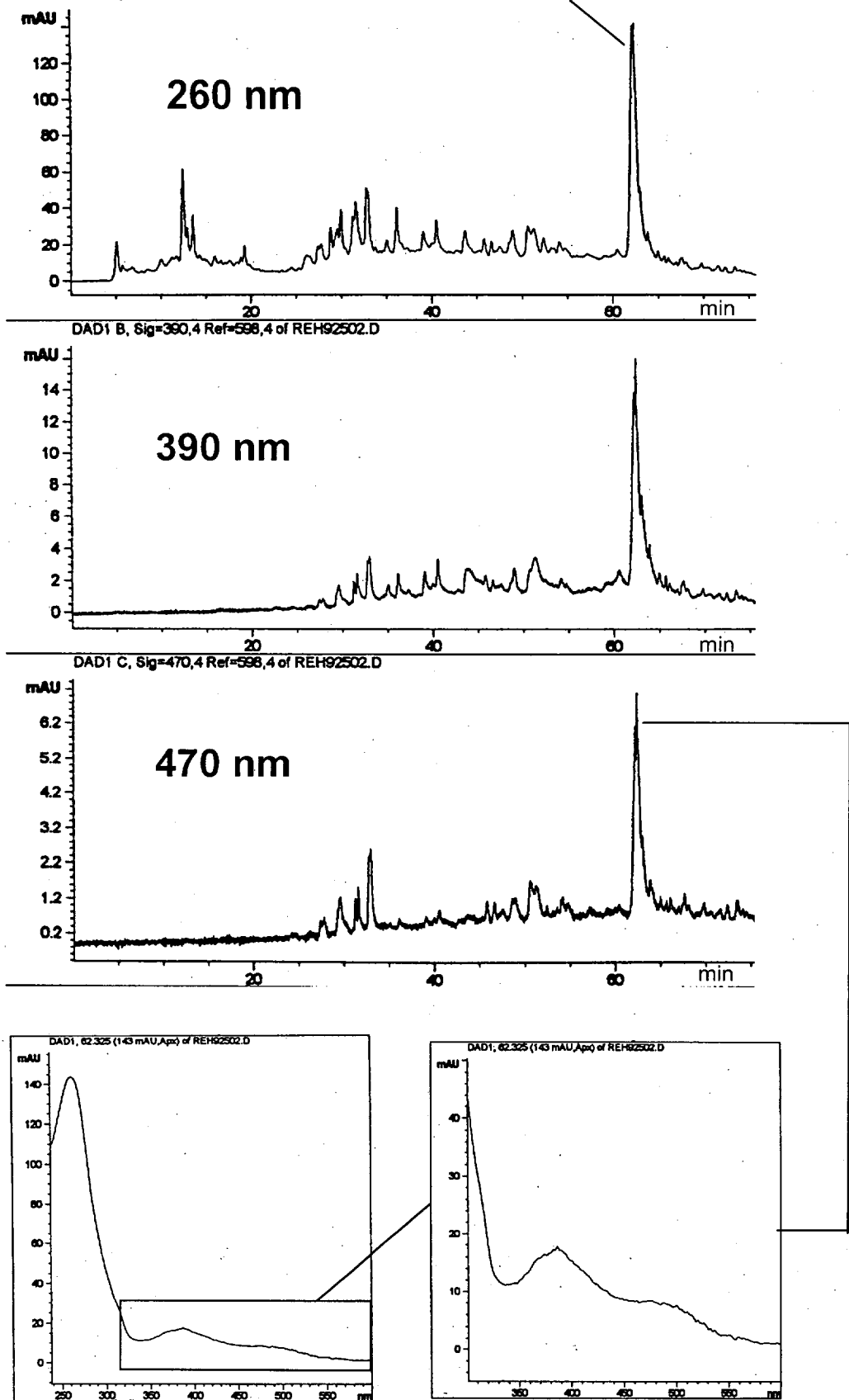


Figure S3