

Supplementary Information for  
TRANSPLATIN-CONJUGATED TRIPLEX-FORMING OLIGONUCLEOTIDES  
FORM ADDUCTS WITH BOTH STRANDS OF DNA

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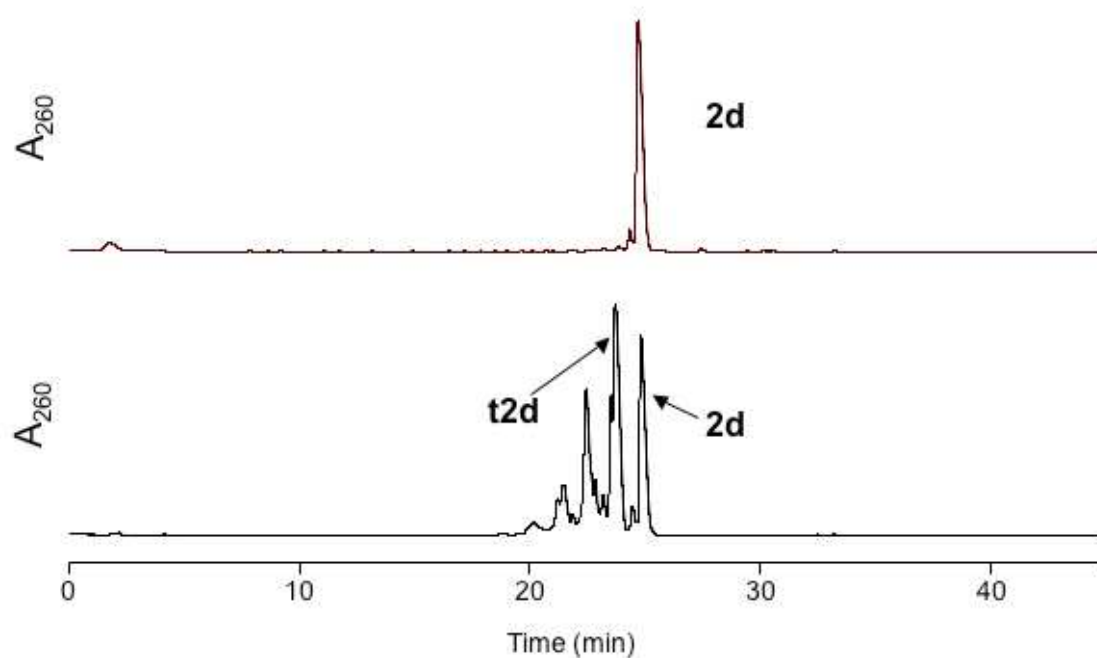


Figure S1 *Purification of t2d by SAX HPLC.* TFO **2d** was incubated with 72  $\mu$ M *trans*-diamminediaquaplatinum(II) dinitrate for 3h at 37°C. The upper chromatogram shows **2d** before platination and the lower chromatogram shows platination reaction mixture. The peak labeled **t2d** was isolated, desalted, and analyzed by MALDI-TOF mass spectrometry. The SAX HPLC column was eluted with a 30 min linear gradient of 0 to 0.5 M NaCl in solution containing 0.1 M Tris, pH 7.8 and 10% acetonitrile at a flow rate of 1.0 mL/min.

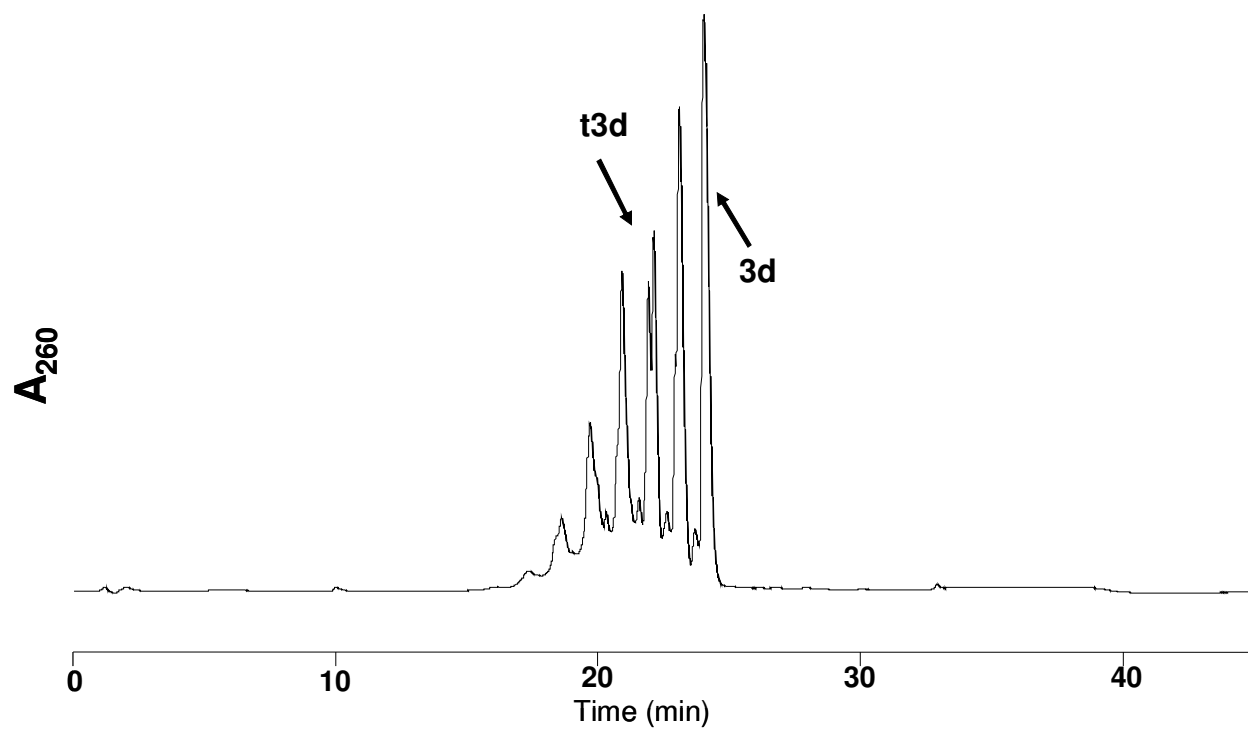


Figure S2 *Purification of **t3d** by SAX HPLC.* TFO **3d** was incubated with 144  $\mu\text{M}$  *trans*-diamminediaquaplatinum(II) dinitrate for 2h at 37°C. The peak labeled **t3d** was isolated, desalted, and analyzed by MALDI-TOF mass spectrometry. The SAX HPLC column was eluted with a 30 min linear gradient of 0 to 0.5 M NaCl in solution containing 0.1 M Tris, pH 7.8 and 10% acetonitrile at a flow rate of 1.0 mL/min

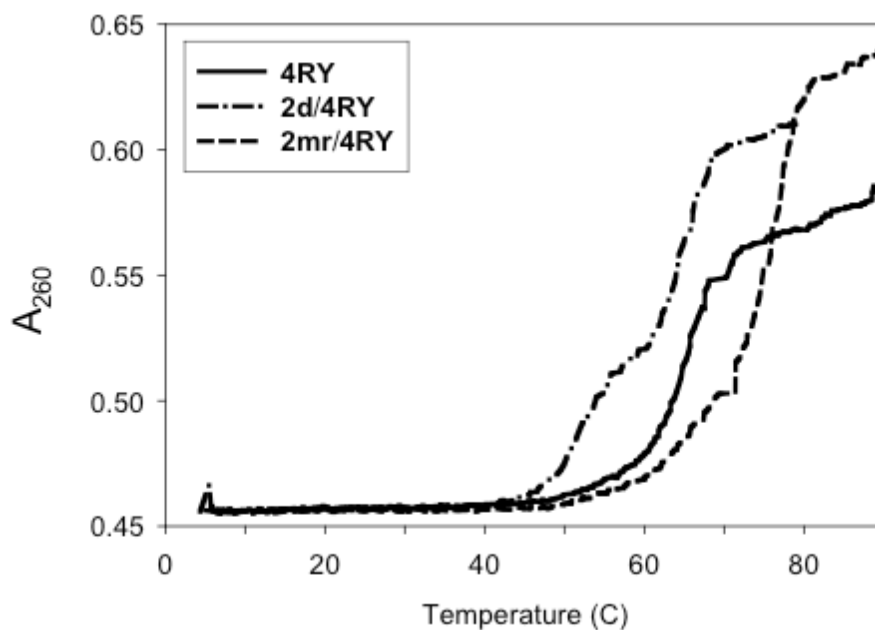


Figure S3 Melting curves of triplexes formed by deoxyribo- and 2'-O-methylribo-TFOs.

Absorbance versus temperature profiles were recorded for solutions containing 1  $\mu$ M deoxyribo-TFO **2d** and 1  $\mu$ M **4RY**, 1  $\mu$ M 2'-O-methylribo-TFO **2mr** and 1  $\mu$ M **4RY**, or 1  $\mu$ M **4RY** alone in pH6.5 triplex buffer. In the case of the **2d/4RY** triplex, the first transition corresponds to dissociation of the TFO from the triplex and the second transition corresponds to dissociation of duplex **4RY**. The single transition observed for triplex **2mr/4RY** indicates that all three strands dissociate simultaneously at a temperature above the melting temperature of the duplex **4RY**.