Supporting Information for:

A General Method for Discovering Inhibitors of Protein-DNA Interactions Using Photonic Crystal Biosensors

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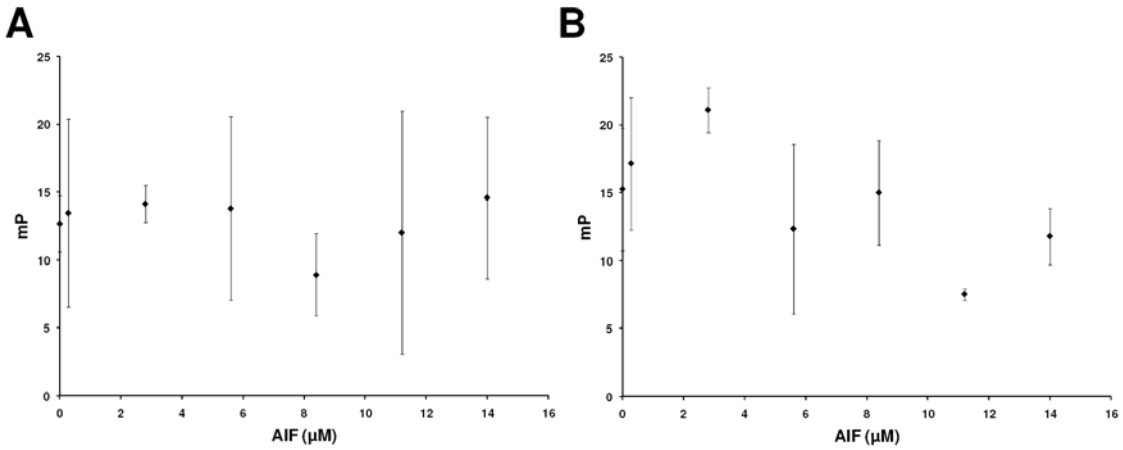
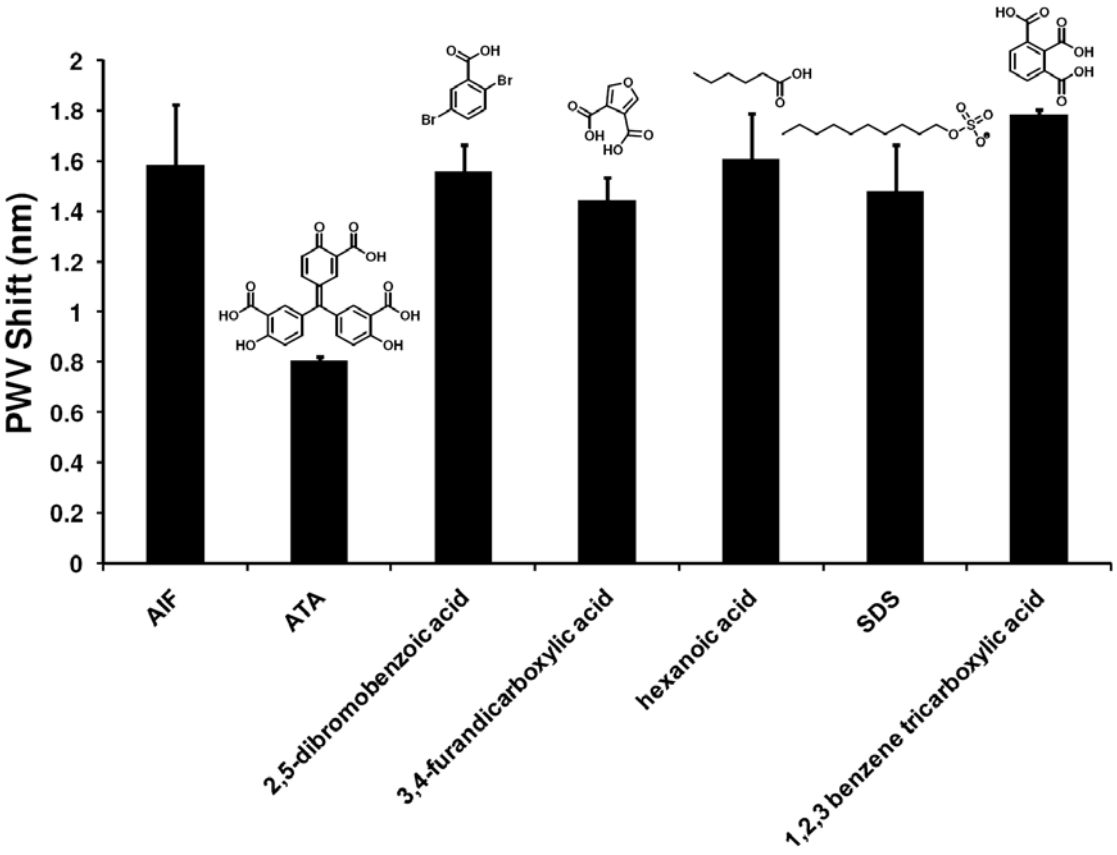


Supporting Figure 1: Fluorescence polarization experiments involving AIF and fluorescently labeled dsDNA oligomers. A) AIF was incubated with 100 nM Texas Red labeled 30mer for 30 min at 25ºC. B) AIF was incubated with 100 nM Fluorescein labeled 20mer for 30 min at 25ºC. Data was obtained using an Analyst HT fluorescent reader (Molecular Devices). Oligos: 5'-Texas Red-GTACCAGTCGGACGGATCGGACCAGTCGGA -3' complement: 5'-TCCGACTGGTCCGATCCGTCCGACTGGTAC-3', 5'-Fluorescein-TGTTCGAGCTAGCTTACCAGT complement: 5'-ACTGGTAAGCTAGCTGAAC-3'. All experiments performed in 50 mM Tris, 100 mM NaCl, pH 8.0.



Supporting Figure 2: Other carboxylic acid containing or negatively charged compounds do not inhibit AIF. All compounds were incubated with AIF (7.01 µM) at a concentration of 25 µM. Assays were performed in accordance with previous AIF-DNA binding assays as described in the Methods section.