Supporting Information

Flavin binding allosteric aptamer with noncovalent labeling for miR sensing

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Figure S1: The profiles for the titration of FAD into a 50 μ M of Let-7i aptamer in binding buffer (Tris HCl 0.500M, NaCl 1M, MgCl2 0.100 M, pH 7.50) at 25°C. (upper panel) Each heat burst curve is the result of a 2 μ L injection from 900 μ M solution of FAD into Let-7i aptamer. Lower panel represents corresponding heat signals versus molar ratio of FAD to Let-7i aptamer. The data points reflect experimental injection heat while the solid line represents the calculated fit of the data.



Figure S2: Representative absorbance versus time data used to determine the initial rates of the enzyme activity. The initial rates were determined from slopes of the linear regions of the raw kinetic data. Shown here are time scans measured after the addition of Let-7i concentrations of (A) 10^{-4} M, (B) 10^{-5} M, (C) 10^{-6} M, (D) 10^{-7} M, (E) 10^{-8} M and (F) the negative control.