Electronic Supplementary Material (ESI) for RSC Advances.

A novel label free aptasensor based on target-induced structure switching of aptamers functionalization mesoporous silica nanoparticle

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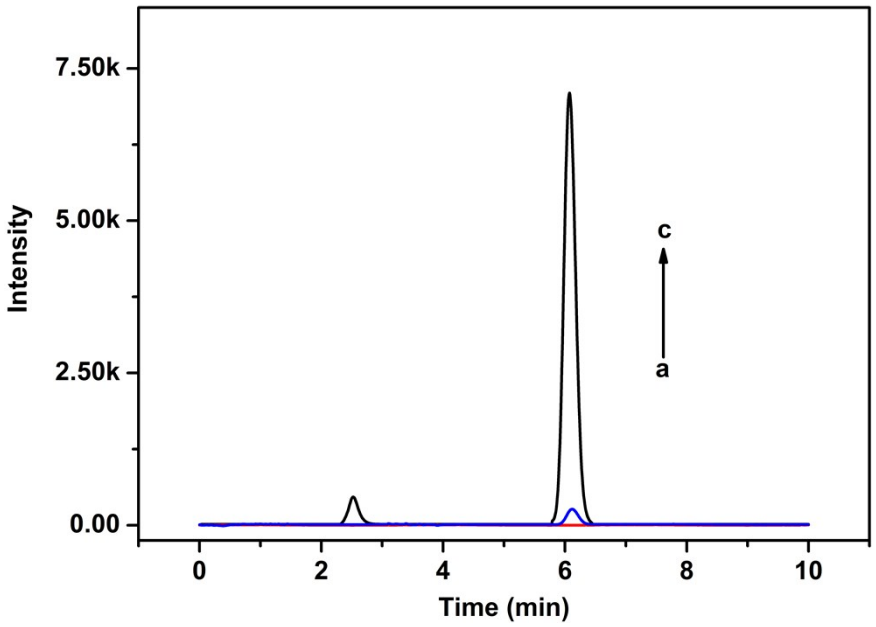

Fig. S1 HPLC of (a) blank; (b) MSN; (c) ATP and MSN for 60 min based on water as solvent.

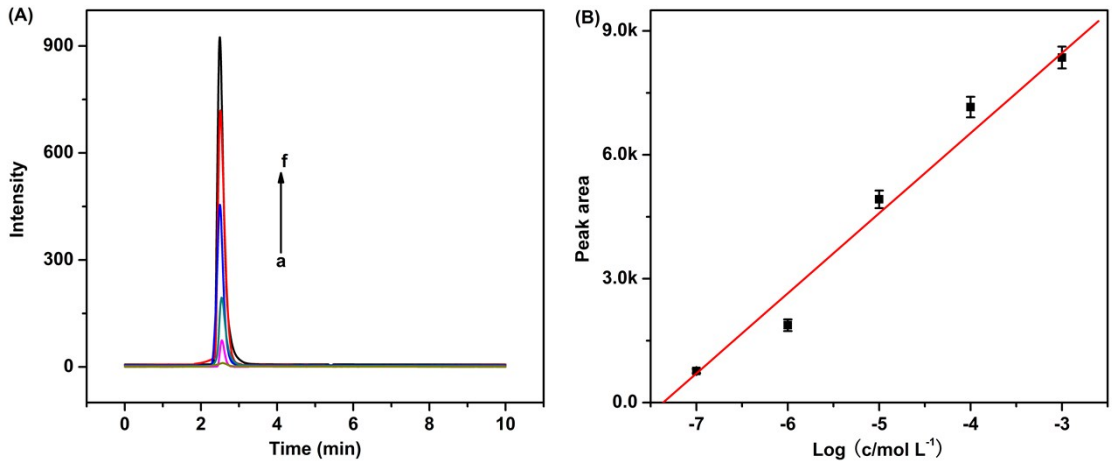

Fig. S2 (A) HPLC responses of ATP at concentrations of 10 nM to 1.0 mM (from a to f), and (B) calibration curve. Error bars represent standard deviations of three parallel experiments.

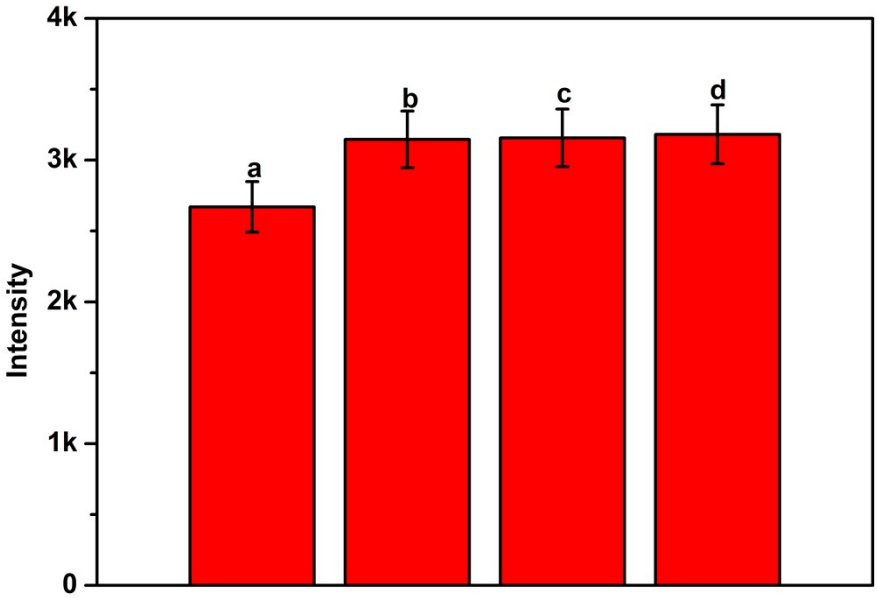

Fig. S3 Histograms of the selectivity of the aptamer−MSN system examined by being incubated in the following samples under the same experimental conditions: (a) adenosine, (b) AMP, (c) ADP and (d) ATP; the concentration of ATP, AMP, ADP, and adenosine is 0.1μM, respectively.