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Quench:

A 40 nM:

1 μ g MH_2 -Apt (16 pmol) $\rightarrow$ 1 μ M

B 35 nM:

C 30 nM:

D 25 nM:

E 20 nM:

F 15 nM:

G 10 nM:

H 5 nM:

I 0 nM:

16 μ l apt + 16 μ l coupl + 320 μ l HB + 16 μ l H_2O + 32 μ l flu
14 μ l apt + 16 μ l coupl + 320 μ l HB + 18 μ l H_2O + 32 μ l flu
12 μ l apt + 16 μ l coupl + 320 μ l HB + 20 μ l H_2O + 32 μ l flu
10 μ l apt + 16 μ l coupl + 320 μ l HB + 22 μ l H_2O + 32 μ l flu
8 μ l apt + 16 μ l coupl + 320 μ l HB + 24 μ l H_2O + 32 μ l flu
6 μ l apt + 16 μ l coupl + 320 μ l HB + 26 μ l H_2O + 32 μ l flu
4 μ l apt + 16 μ l coupl + 320 μ l HB + 28 μ l H_2O + 32 μ l flu
2 μ l apt + 16 μ l coupl + 320 μ l HB + 30 μ l H_2O + 32 μ l flu
0 μ l apt + 16 μ l coupl + 320 μ l HB + 32 μ l H_2O + 32 μ l flu

DLS results:

PBS: 100. 2 ± 7.0 nm (PDI: 0.2)

pH: 7: -27.6 ± 1.4 mV

pH: 3: -22.5 ± 0.6 mV

Plates marking LEGEND:

- 1 Pretreatment + Sol. 1
- 2 Pretreatment + Sol. 2
- 3 Pretreatment + Sol. 3
- 4 Sol. 1
- 5 Sol. 2
- 6 Sol. 3
- 7 NT

①: UNO@Talg

②: UNO@Aptamer

③: free apt (trout)

free apt, pre-trout (10x)

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for pretreat. (10x)

30.4 pmol apt per mg NP $\rightarrow$ 16 mg/ml $\rightarrow$ 300.4 pmol/ml $\rightarrow$ 300 pmol in 100 μ l
pretreat: 3000 pmol