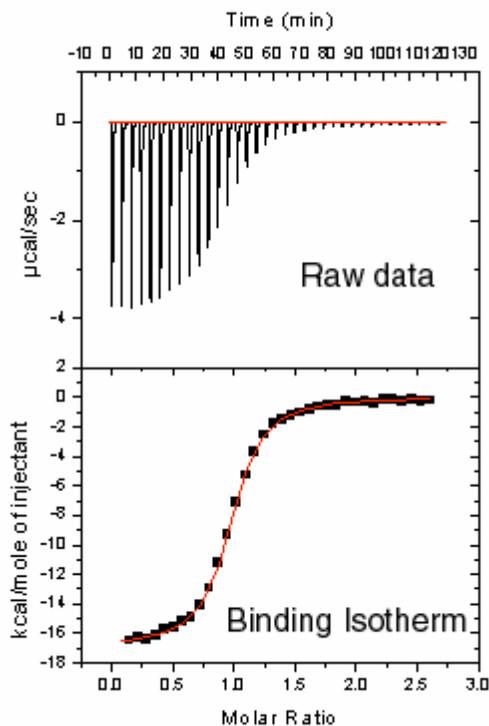


Titration of RNase with 2'-CMP

High protein concentration

Cell: RNase 64 uM
Syringe: 2'-CMP 2.19 mM
2 uL injections



The area underneath each injection peak (top panel) is equal to the total heat released for that injection. When this is plotted against the molar ratio of ligand added to macromolecule in the cell, a complete binding isotherm for the interaction is obtained (bottom panel).

The fitted isotherm provides the following binding parameters:

Data: RNaseEwa11_NDH

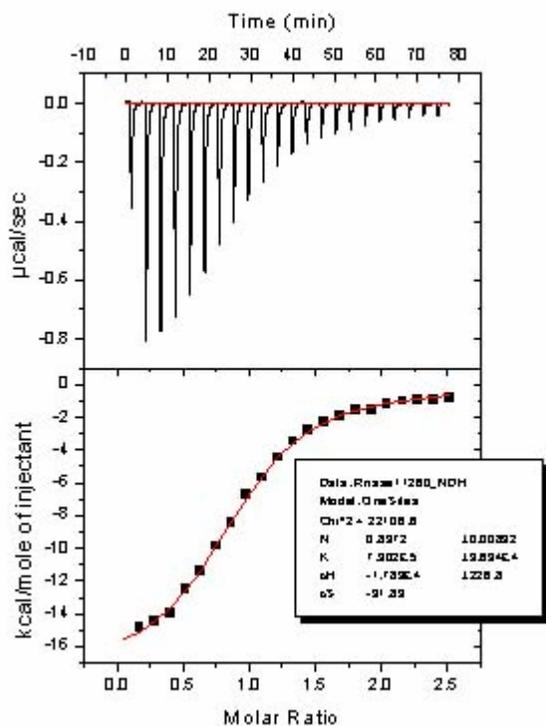
Model: OneSites

Chi² = 9521.08

$N = 0.9617 \pm 0.001882$	(Stoichiometry; mass ratio)
$K = 7.566 \pm 0.1958 \text{ E}5$	(Binding constant)
$\Delta H = -1.692 \text{ E}4 \pm 48.84$	(Enthalpy of binding reaction)
$\Delta S = -28.90$	(Entropy of binding reaction)

Low protein concentration

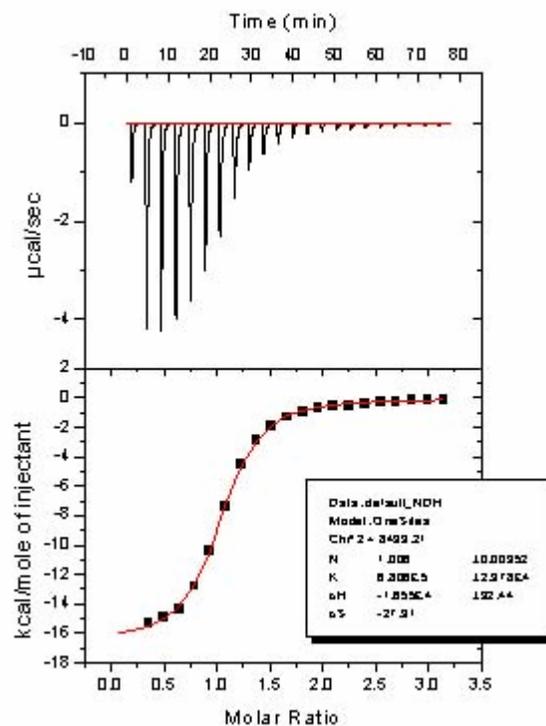
RNase **11.4 uM**
2'-CMP **0.544 mM**



Data: RNaseEwa112602_NDH
 Model: OneSites
 Chi² = 22106.6

N = 0.8972 ± 0.00832
 K = 7.902 ± 0.369 E5
 delta H = -1.783 E4 ± 226.8
 delta S = -31.83

RNase **40 uM**
2'-CMP **2.72 mM**



Data: RNaseEwa112502_NDH
 Model: OneSites
 Chi² = 8499.21

N = 1.006 ± 0.00352
 K = 6.806 ± 0.2378 E5
 delta H = -1.655 E4 ± 92.44
 delta S = -27.91