

Figure S1: FT-IR spectral data of A) NIPAM, and B) AAC.

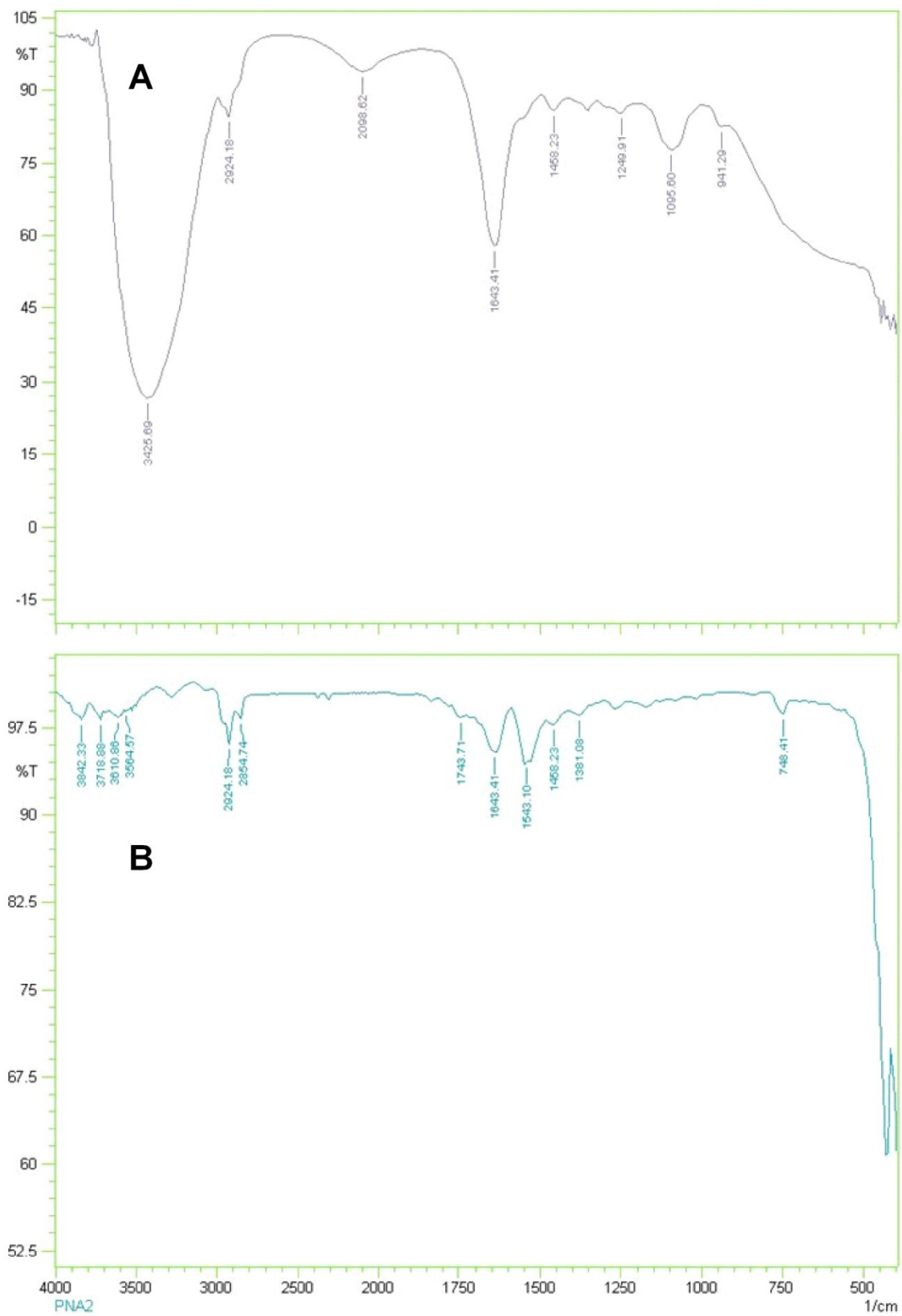
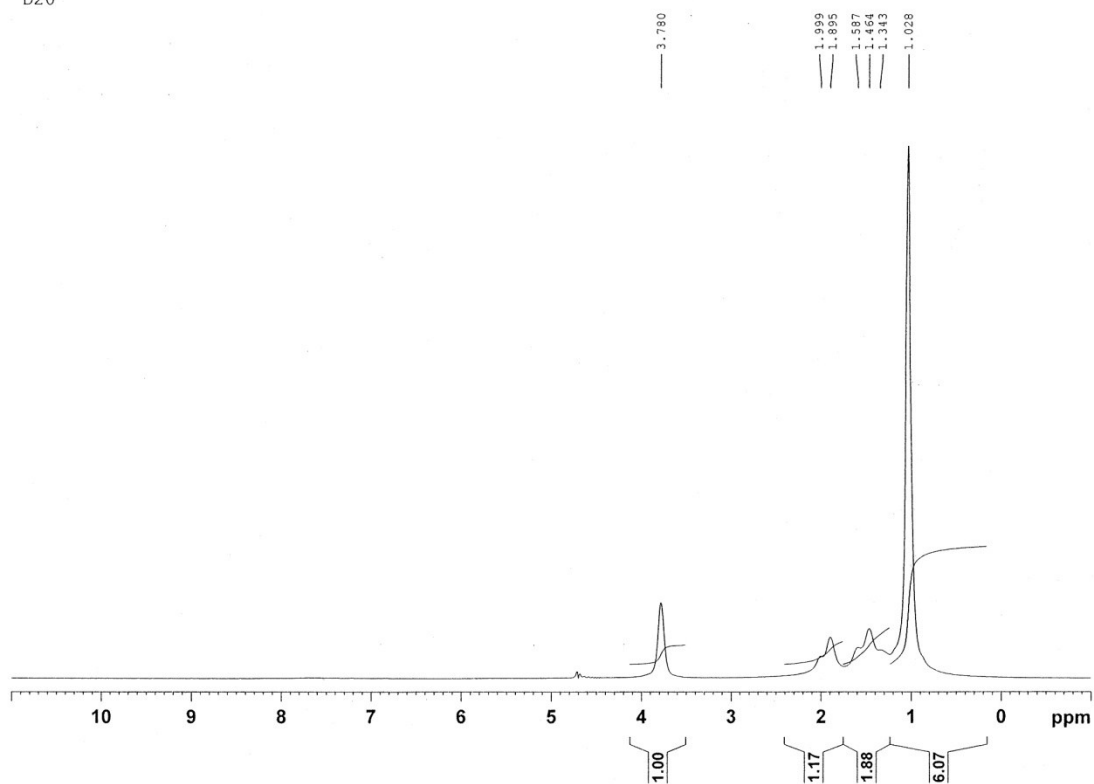


Figure S2: FT-IR spectral data of A) PNA₀, and B) PNA₂.

PNA-0
D2O



PNA-01
D2O

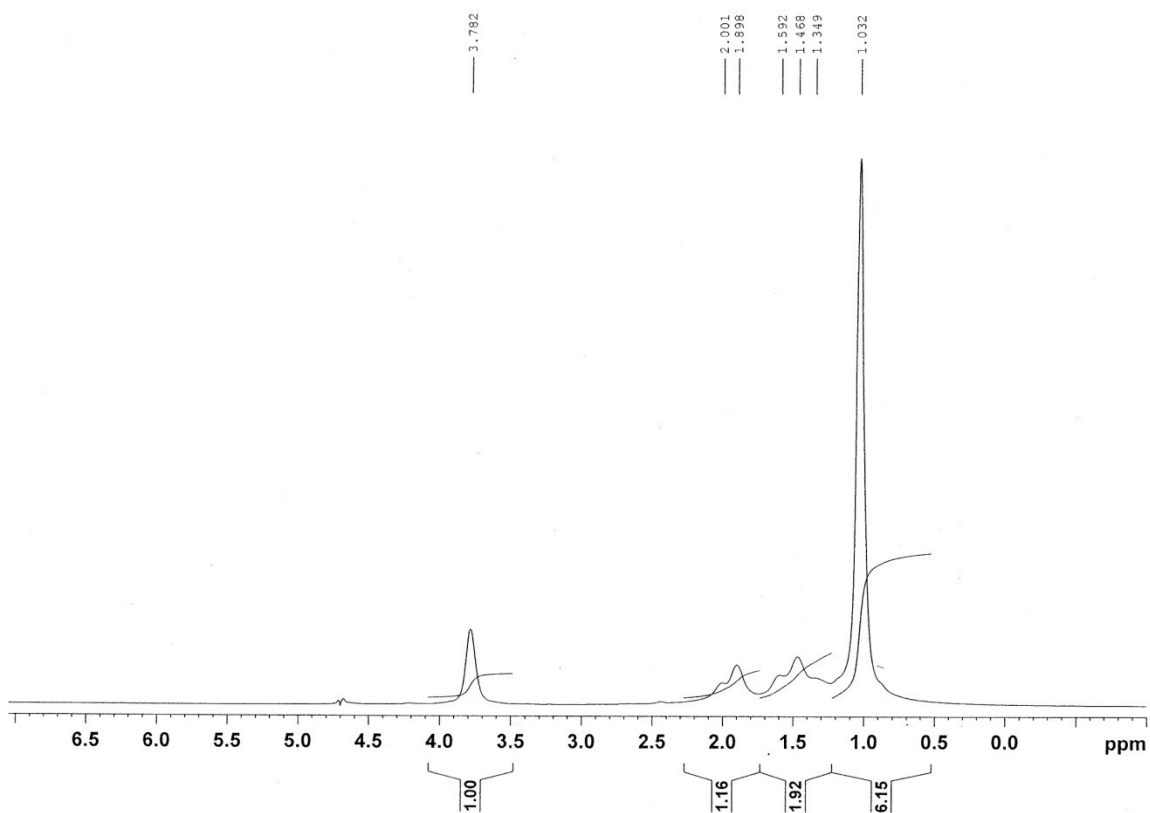


Figure S3: ^1H NMR spectral analysis of D_2O swelled PNA_0 and PNA_1 Ng's.

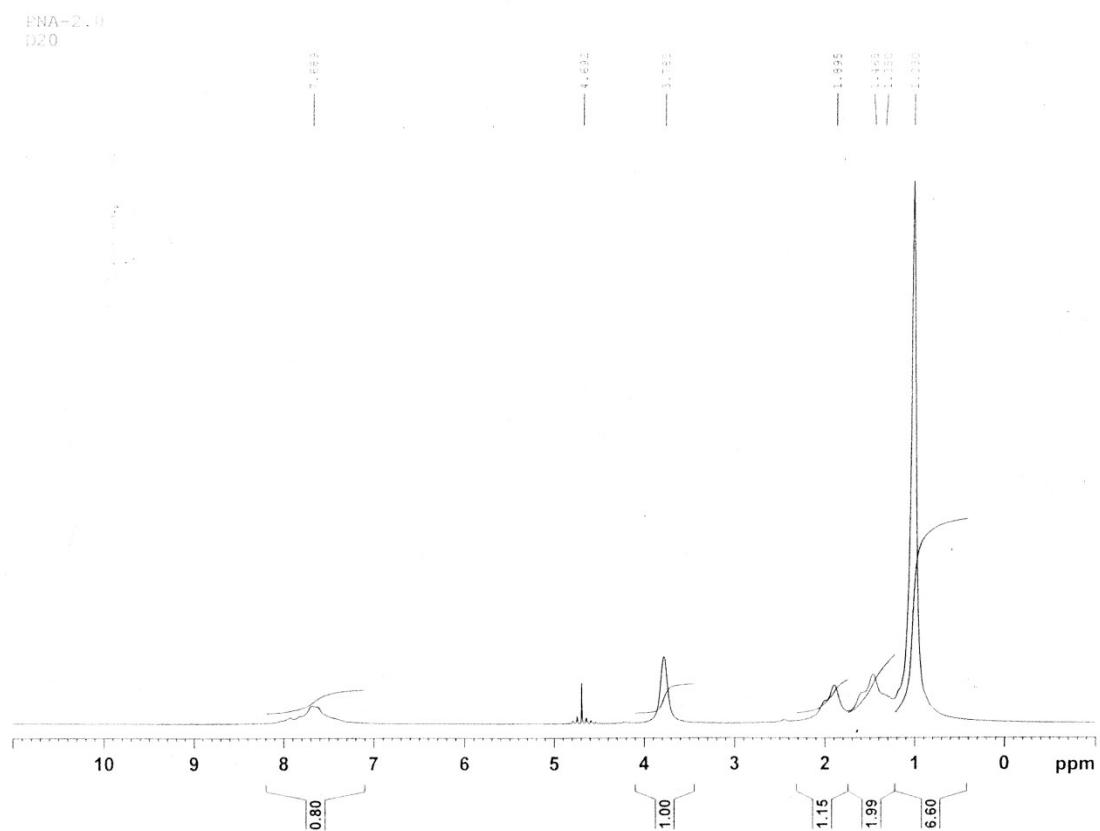
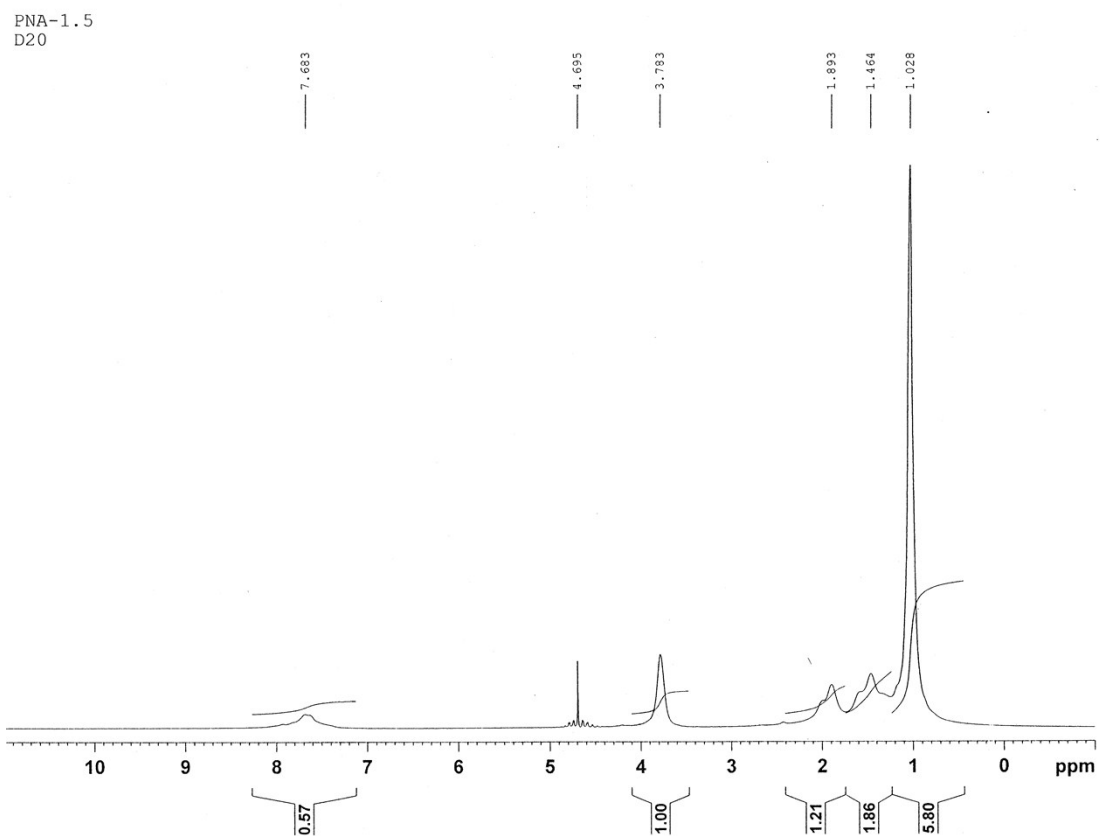
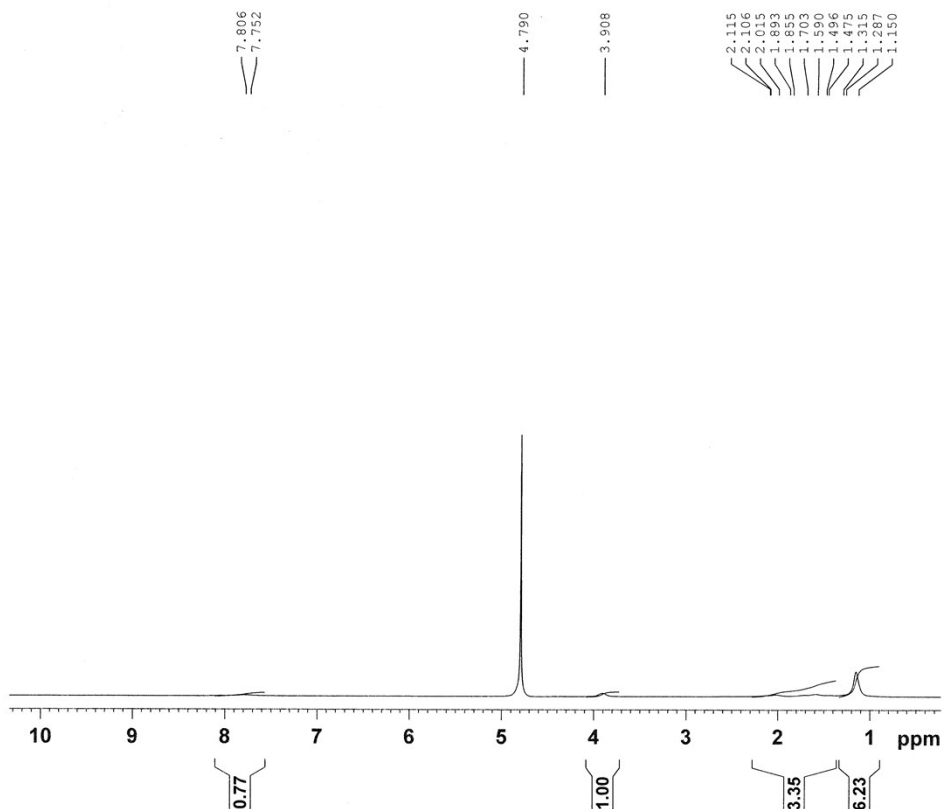


Figure S4: ^1H NMR spectral analysis of D_2O swelled $\text{PNA}_{1.5}$ and PNA_2 Ng's.

PNA 2.5
D2O



Current Data Parameters
NAME test-25mar2015
EXPNO 33
PROCNO 1

F2 - Acquisition Parameters
Date_ 20160317
Time_ 15.08
INSTRUM spect
PROBHD 5 mm BBO BB-1H
PULPROG zg30
TD 65536
SOLVENT D2O
NS 64
DS 2
SWH 8278.146 Hz
FIDRES 0.126314 Hz
AQ 3.9584243 sec
RG 4
DW 60.400 usec
DE 6.00 usec
TE 300.2 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 9.20 usec
PL1 0.00 dB
SFO1 400.1324710 MHz

F2 - Processing parameters
SI 32768
SF 400.1299645 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

Analysed By:

Figure S5: ¹H NMR spectral analysis of D₂O swelled PNA_{2.5} Ng's.

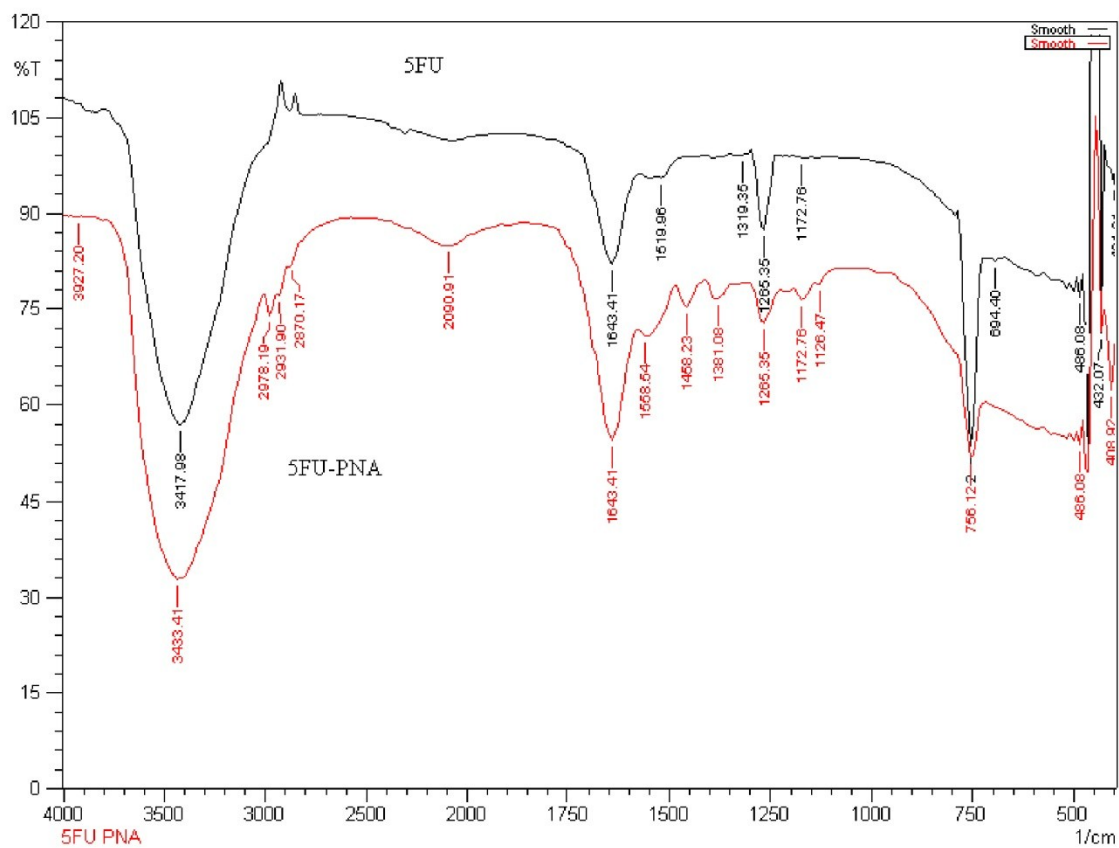


Figure S6: FTIR spectra of 5-FU and 5-FU-PNA Ng's.