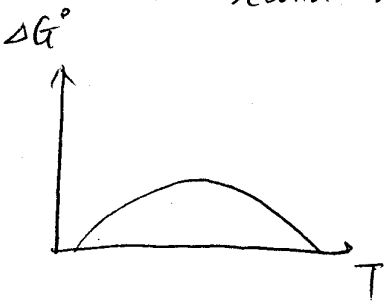
Course 565/665 Lecturer prof. Cavagnero
Day 4.15.04 Date 9:55 am
Notes Taken By J. Hong Total Number of Pages

$$\frac{\partial^2 \Delta G^\circ}{\partial T^2} = -\frac{\Delta C_p}{T}$$

the second derivative — a measure of curvature



for the stability curve (left):

$\Delta C_p > 0$

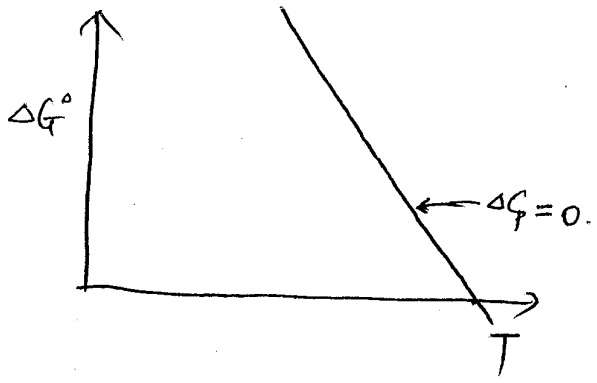
$C_{pU} > C_{p,N}$.

This is mainly due to hydrophobic effect — the tendency of H_2O to coordinate around solvent-exposed nonpolar surface.

ds-DNA has $C_{pU} \approx C_{pN}$

This is the case of other biomolecules as well.

$$\Delta G^\circ = \Delta H_m^\circ \left(1 - \frac{T}{T_m}\right)$$



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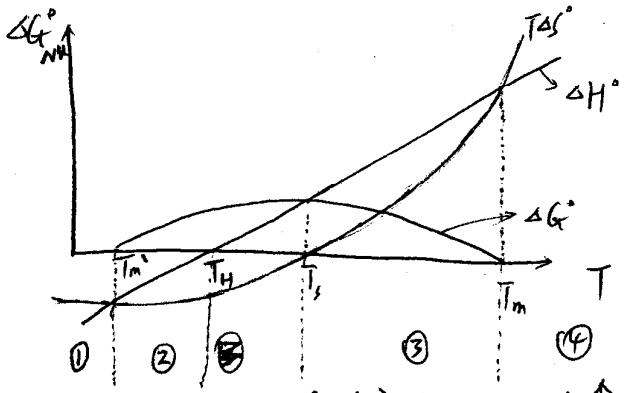

H-S Compensation: ΔH ↑ as TΔS ↑