

Supporting Information Table 1. ^1H $\Delta\delta$ and ^{13}C $\Delta\delta'$ values (ppb) at 800 MHz at 25 °C and 5 °C.^a

	Nt	measurement at 25 °C		measurement at 5 °C	
		^1H $\Delta\delta^b$	^{13}C $\Delta\delta'$	^1H $\Delta\delta^c$	^{13}C $\Delta\delta'$
C ₂	A6	1	-47	1	-54
	A7	1	-52	2	-60
	A20	1	-52	1	-60
C ₅	C4	-3	-59	-3	-69
	U5	0	-53	0	-59
	U19	-2	-51	3	-55
	C22	0	-10	1	-15
	C23	-2	-4	-2	-9
C ₆	C4	n.d. ^d	-21	n.d. ^d	-36
	U5	7	-47	8	-62
	U19	6	-58	9	-68
	C22	5	-103	6	-111
	C23	3	-94	3	-118
C ₈	G2	3	-52	-4	-78
	G3	4	-35	4	-40
	A6	-4	-23	n.d. ^e	n.d. ^e
	A7	2	-48	5	-52
	A20	-4	-10	n.d. ^e	n.d. ^e
	G21	6	-18	8	-20

^a The alignment tensors at 5 and 25 °C differ in orientation by $9 \pm 2^\circ$, presumably as a result of a stiffening of the loop region at lower temperature. The magnitudes and rhombicities of the two alignment tensors are also different: -35 Hz/0.19 for 5°C data and -30 Hz/0.26 for 25°C data.

^b Averaged ^1H shift obtained from HSQC and TROSY (carbon decoupled during the ^1H acquisition) spectra; pairwise rms shift = 3.4 ppb.

^c Averaged ^1H shift obtained from two TROSY spectra; pairwise rms shift = 1.5 ppb.

^d Overlap in ^1H dimension.

^e Not determined due to resonance overlap.