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Supporting Information

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Supporting Information

for

Early Events in IAPP Amyloid Fibril Formation by NMR Spectroscopy

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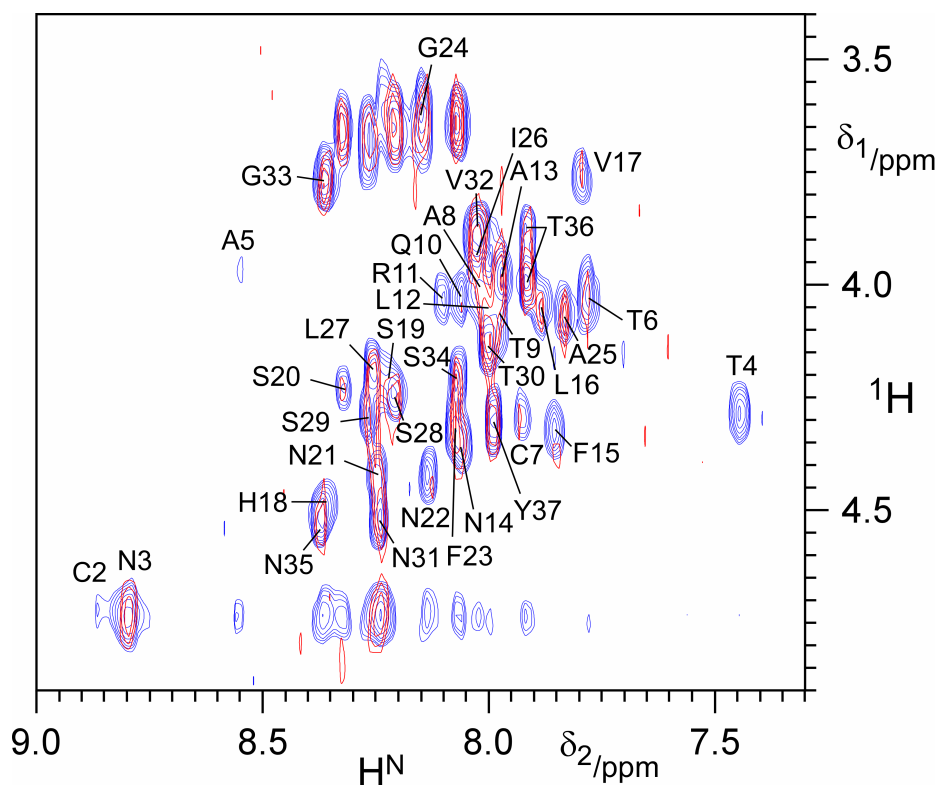


Figure S1: Kinetics of IAPP fibril formation observed by NMR spectroscopy. TOCSY spectra of IAPP (40 μM , pH 5.8 and 10°C) after 18 h (blue) and 54 h (red) .

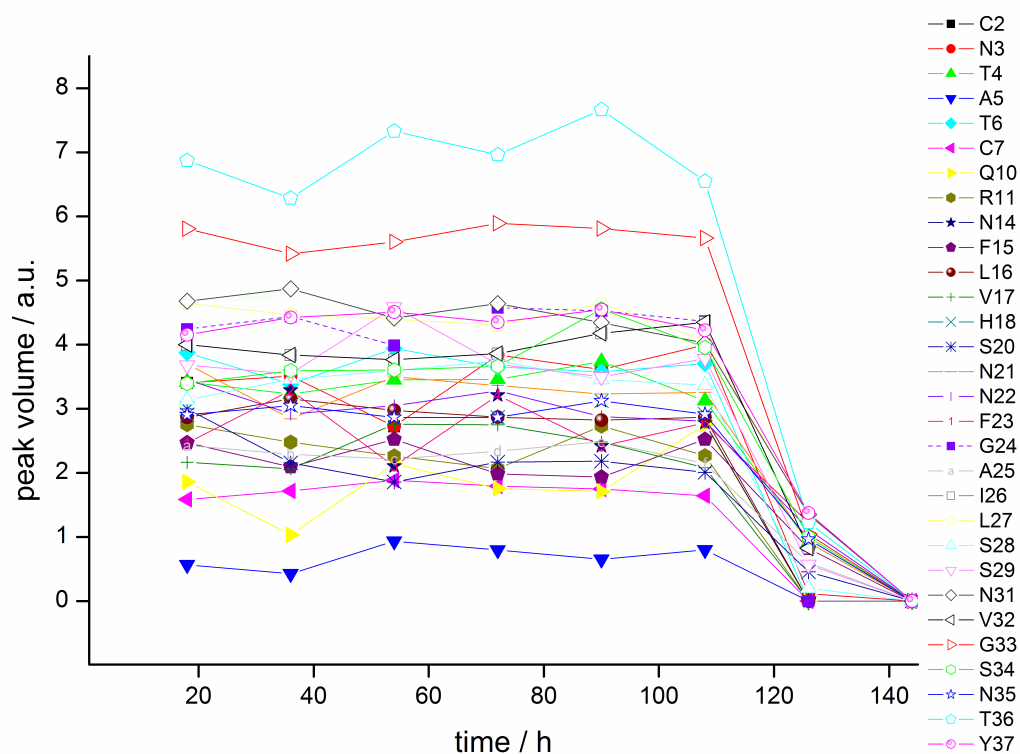


Figure S2: Enlarged version of Figure 3A.

Table S1: ^1H NMR assignment of 40 μM human IAPP (1-37) in 10 mM sodium acetate buffer (pH 5.5) at 283 K, measured at 600 MHz.

Residue	NH	C α H	C β H	C γ H	others
Lys1	—				
Cys2	8.81	4.72	—		
Asn3	8.80	4.77	2.63/2.63		
Thr4	7.43	4.27	4.31	1.03	
Ala5	8.54	3.96	1.24		
Thr6	7.76	4.04	3.97	0.96	
Cys7	7.94	4.31	2.83/3.04		
Ala8	8.05	3.96	1.09		
Thr9	8.02	4.07	3.98	0.99	
Gln10	8.08	4.01	1.78/1.83	2.11/2.15	
Arg11	8.13	4.02	1.54/1.57	1.33/1.40	2.92/2.92 7.02 —
Leu12	8.02	4.07	1.36/1.43	1.41	C $^{\delta 1}$ H $_3$ 0.63, C $^{\delta 2}$ H $_3$ 0.69
Ala13	8.01	4.04	1.19		
Asn14	8.07	4.34	2.48/2.48		
Phe15	7.86	4.32	2.82/2.92		—
Leu16	7.88	4.04	1.30/1.36	1.23	C $^{\delta 1}$ H $_3$ 0.60, C $^{\delta 2}$ H $_3$ 0.65

Val17	7.80	3.74	1.76	0.61/0.68	
His18	8.41	4.49	2.91/3.00		C ^{δ2} H 7.02, C ^{ε1} H 8.28
Ser19	8.24	4.21	3.56/3.63		
Ser20	8.34	4.22	3.60/3.65		
Asn21	8.26	4.41	2.44/2.47		
Asn22	8.14	4.41	2.49/2.59		
Phe23	8.08	4.30	2.79/2.94		—
Gly24	8.15	3.57/3.65			
Ala25	7.83	4.05	1.11		
Ile26	8.04	3.87	1.59	0.94/0.84	C ^{γ2} H ₃ 0.64, C ^{δ1} H ₃ 0.61
Leu27	8.27	4.17	1.40/1.40	1.33	C ^{δ1} H ₃ 0.63, C ^{δ2} H ₃ 0.69
Ser28	8.21	4.23	3.60/3.66		
Ser29	8.27	4.27	3.62/3.70		
Thr30	8.00	4.11	4.00	0.95	
Asn31	8.24	4.51	2.49/2.59		
Val32	8.02	3.86	1.87	0.69/0.69	
Gly33	8.37	3.74/3.74			
Ser34	8.07	4.19	3.59/3.64		
Asn35	8.38	4.51	2.50/2.54		
Thr36	7.91	3.97	3.86	0.82	
Tyr37	7.99	4.29	2.68/2.84		C ^{δ1/2} H 6.89, C ^{ε1/2} H 6.58
