Supporting Materials

The typical fs-resolved fluorescence transients are shown in Figure 2-6 and the resulting parameters are given in following tables which were fitted by

$$I_\lambda(t) = \sum_i \alpha_i e^{-t/\tau_i} + \sum_j \beta_j e^{-t/\tau_j} \ (i = 1, 2, j = 3, 4).$$

Table S1: Fitting parameters of **N**-form HSA.

λ(nm)	310	315	320	330	340	350	360
α_1	0.30	0.24	0.23	0.17	0.13		
α_2	0.40	0.28	0.27	0.16	0.15	0.16	0.10
β_3	0.21	0.30	0.29	0.33	0.29	0.27	0.25
β_4	0.09	0.18	0.21	0.34	0.43	0.57	0.65
τ_1	4.4	5.6	6.6	8.0	9.2		
τ_2	104	109	115	120	125	51	51
τ_3	1400	1400	1400	1400	1400	1400	1400
τ_4	6100	6100	6100	6100	6100	6100	6100

Table S2: Fitting parameters of **F**-form HSA.

λ(nm)	310	320	330	340	350	360	380
α_1	0.24	0.19	0.15	0.12			
α_2	0.38	0.31	0.24	0.17	0.16	0.10	0.10
β_3	0.16	0.19	0.21	0.22	0.25	0.26	0.23
β_4	0.22	0.31	0.40	0.49	0.59	0.64	0.67
τ_1	4.1	7.5	9.4	10.7			
τ_2	125	157	184	208	100	100	100
τ_4	1400	1400	1400	1400	1400	1400	1400
τ_5	6100	6100	6100	6100	6100	6100	6100

Table S3: Fitting parameters of **E**-form HSA.

λ(nm)	310	320	330	340	350	360	370
α_1	0.21	0.13	0.09				
α_2	0.23	0.17	0.12	0.16	0.09	0.05	
β_3	0.36	0.42	0.43	0.39	0.39	0.34	0.27
β_4	0.20	0.28	0.36	0.45	0.52	0.60	0.73
τ_1	6.7	9.0	16.2				
τ_2	72	97	120	46	46	46	
τ_3	912	912	912	912	912	912	912
τ_4	4600	4600	4600	4600	4600	4600	4600

Table S4: Fitting parameters of **B**-form HSA.

λ(nm)	310	315	320	330	340	360	370
α_1	0.28	0.23	0.19	0.17	0.13		
α_2	0.36	0.31	0.27	0.23	0.20	0.18	0.13
β_3	0.23	0.28	0.33	0.31	0.34	0.33	0.27
β_4	0.12	0.18	0.21	0.29	0.33	0.49	0.60
τ_1	1.1	1.5	2.0	2.5	3.1		
τ_2	32	35	37	43	45	35	35
τ_3	1150	1150	1150	1150	1150	1150	1150
τ_4	6100	6100	6100	6100	6100	6100	6100

Table S5: Fitting parameters of **A**-form HSA.

λ(nm)	310	315	320	330	340	360	380
α_1	0.41	0.27	0.26	0.14	0.06		
α_2	0.27	0.32	0.30	0.34	0.34	0.37	0.37
β_3	0.18	0.22	0.21	0.23	0.25	0.21	0.14
β_4	0.14	0.19	0.23	0.29	0.35	0.42	0.49
τ_1	1.1	1.6	2.0	2.5	3.5		
τ_2	15	20	23	27	28	29	29
τ_3	318	318	318	318	318	318	318
τ_4	3806	3806	3806	3806	3806	3806	3806

Fig.1S. Representation of normalized overall FRES at several delay time, constructed from the corresponding fluorescence transients for HSA (a) **N** Form, (b) **F** Form, (c) **E** Form and (d) **B** Form. The dashed curve in each panel is the measured steady-state fluorescence emission spectrum.
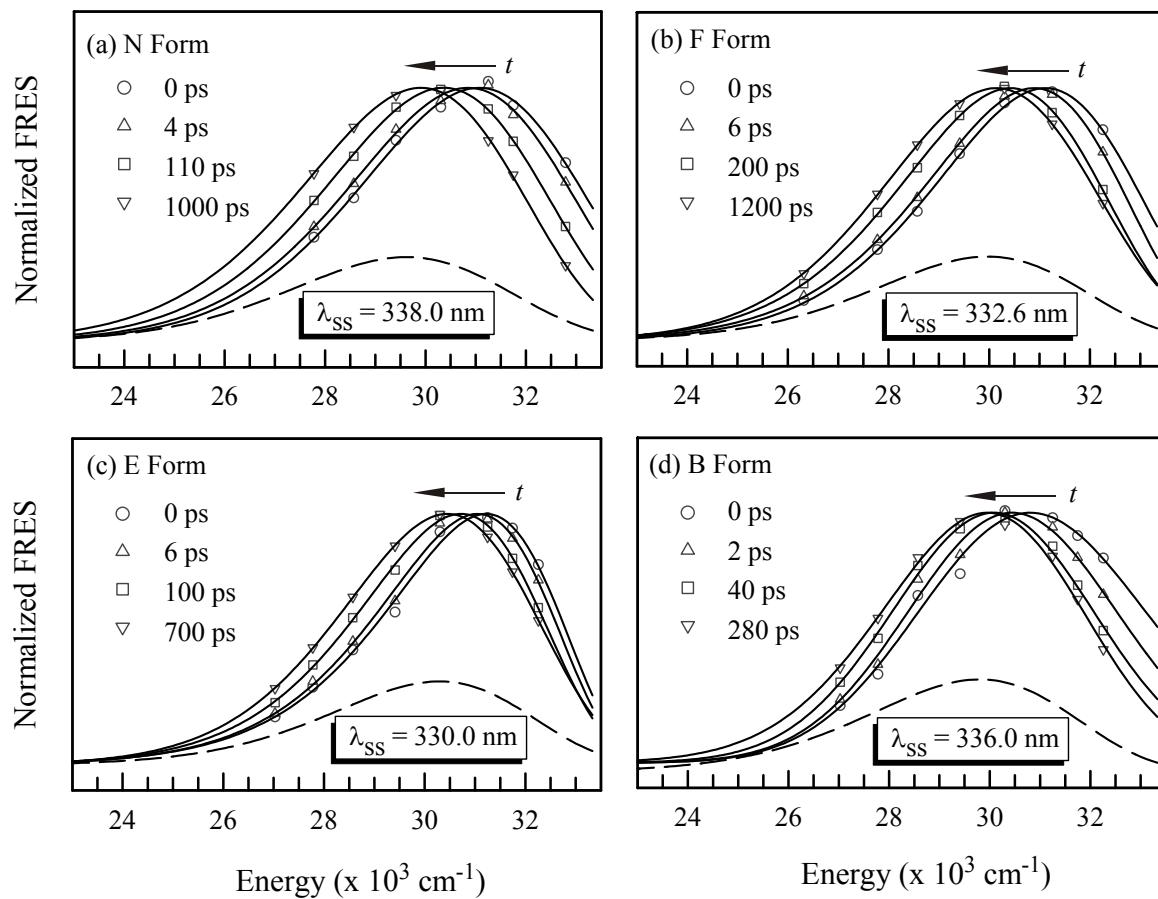

Fig. 1S. Qiu *et al.*