

Supplementary Data

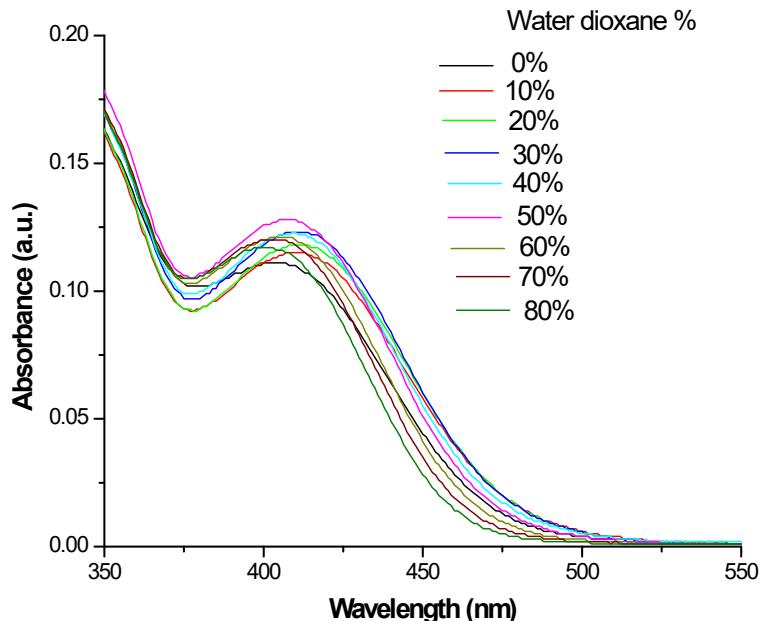
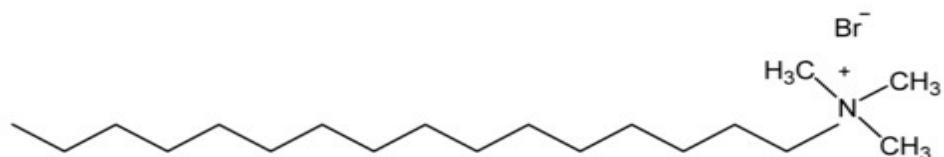
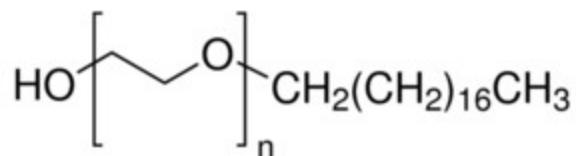


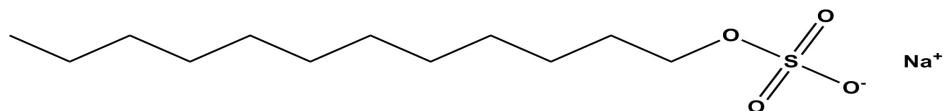
Fig. S1Absorption spectra of AICCN in different water-dioxane mixtures at fixed probe concentration.



Scheme S1The molecular structure of CTAB



Scheme S2 The molecular structure of Brij S20.



Scheme S3 The molecular structure of SDS.

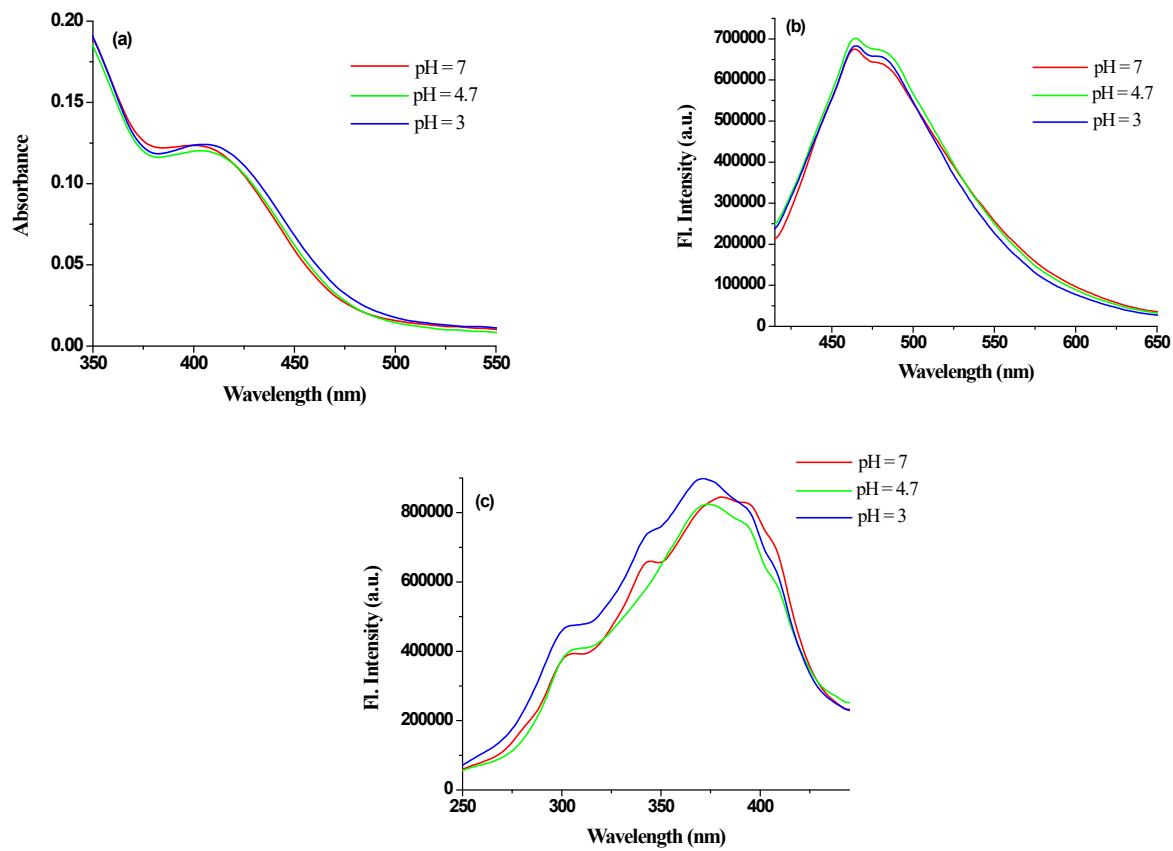


Fig. S2 (a) Absorption spectra of AICCN in Tris buffer at different pH values; **(b)** Emission spectra of AICCN in Trisbuffer at different pH values, $\lambda_{\text{ex}} = 400 \text{ nm}$; **(c)** Excitation spectra of AICCN in Trisbuffer at different pH values, $\lambda_{\text{em}} = 475 \text{ nm}$.

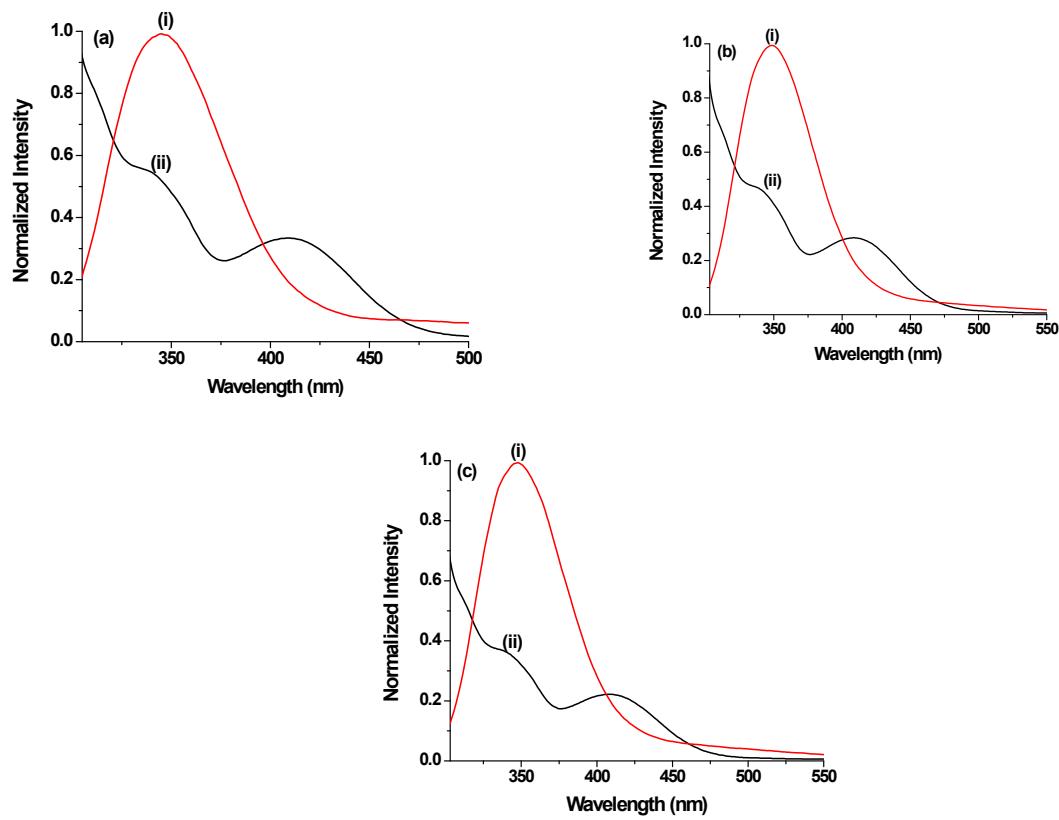
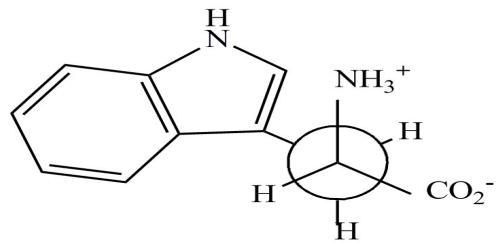
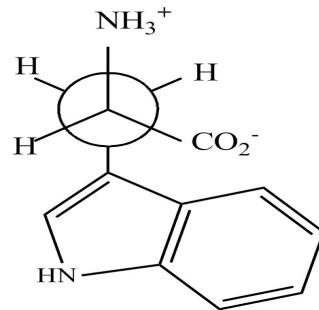


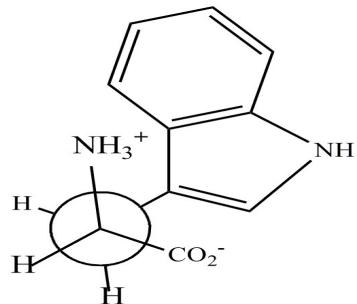
Fig. S3 Overlap of (i) Emission spectrum of BSA and (ii) Absorption spectrum of AICCN at (a) pH = 7; (b) pH = 4.7 and (c) pH = 3.



(A)



(B)



(C)

Fig. S4 Inter-convertible conformers of Trp in Bovine Serum Albumin (BSA)

Table S1

Fluorescence emission maxima of AICCN at varying concentrations of CTAB

Serial No.	Concentration of CTAB (M) $\times 10^{-4}$	Fluorescence Emission Maxima (nm)
1	0	478
2	1.5	478
3	3	478
4	4.5	479
5	6	480
6	7.5	481
7	9	474
8	10.5	472
9	12	473
10	13.5	472
11	15	472

Table S2**Fluorescence emission maxima of AICCN at varying concentrations of S 20**

Serial No.	Concentration of S-20 (M) $\times 10^{-4}$	Fluorescence Emission Maxima (nm)
1	0	482
2	0.5	483
3	1	481
4	1.5	480
5	2	481
6	2.5	478
7	3	483
8	3.5	480
9	4	480
10	4.5	481
11	5	481

Table S3**Fluorescence emission maxima of AICCN at varying concentrations of SDS**

Serial No.	Concentration of SDS (M) $\times 10^{-3}$	Fluorescence Emission Maxima (nm)
1	0	481
2	1	482
3	2	481
4	3	482
5	4	481
6	5	479
7	6	476
8	7	475
9	8	480
10	9	474
11	10	478
12	11	475
13	12	479