

## Supporting Information

### Interaction between $\beta$ -casein Micelles and Imidazolium-Based Ionic Liquid

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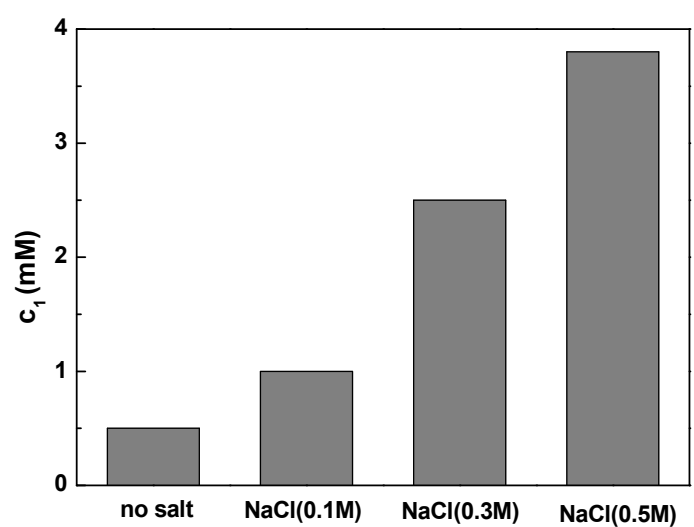


Fig. S1.  $c_1$  values of  $\beta$ -CM/[C<sub>12</sub>mim]Br mixed system in the presence of salt with different concentration.

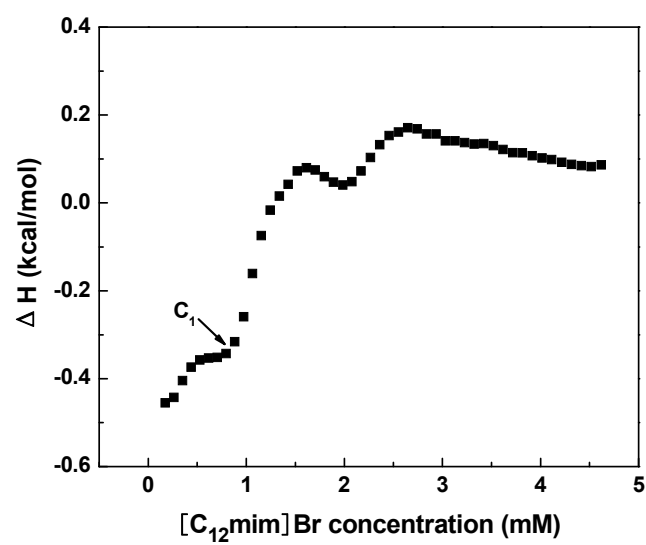


Fig. S2. ITC curves of  $[C_{12}mim]Br$  into  $\beta$ -casein (3mg/ml) at 328 K.  
 $[C_{12}mim]Br$  concentration in the syringe being 25 mM.

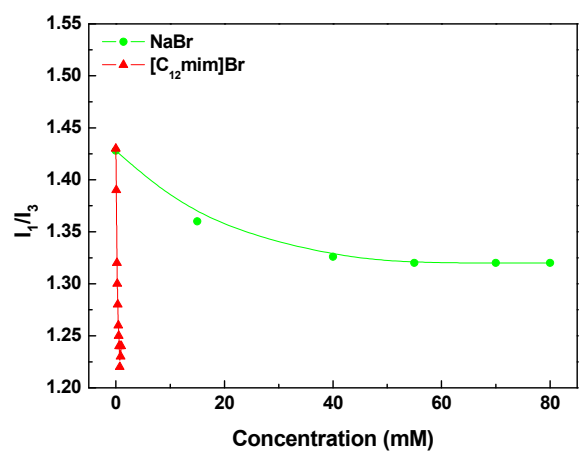


Fig. S3. Plots of  $I_1/I_3$  of pyrene against NaBr concentration in the presence of  $\beta$ -CM.

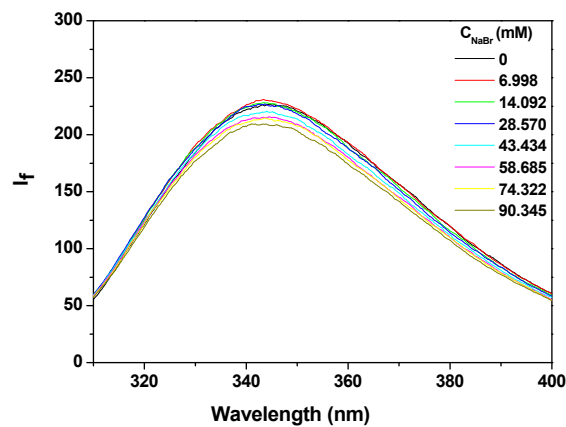


Fig. S4. Effect of NaBr on the fluorescence emission spectra of  $\beta$ -casein.