Supporting Information

Self-assembly of polymer tethered molecular nanoparticle shape amphiphiles in selective solvents

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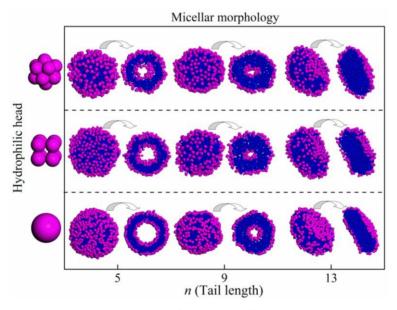


Figure S1 Characteristic morphological snapshots of aggregates formed by model polymer T_n -H as a function of hydrophobic tail length and number of hydrophilic head beads.

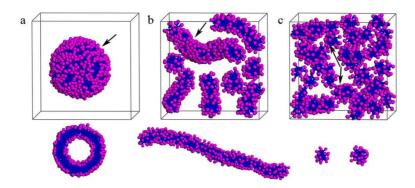


Figure S2 Snapshots of model surfactant analogue T₅-H in selective solvent with a concentration of 0.15 for the following a_{HS} : (a) $a_{\text{HS}} = 25$, vesicles; (b) $a_{\text{HS}} = 20$, wormlike cylinders; (c) $a_{\text{HS}} = 15$, spheres.

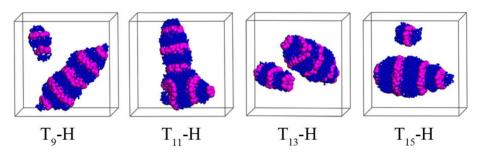
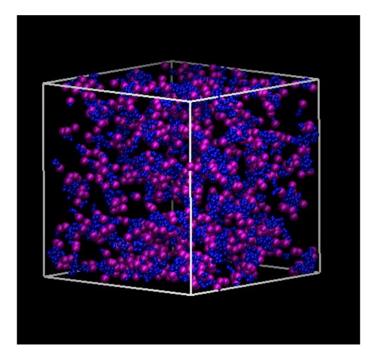
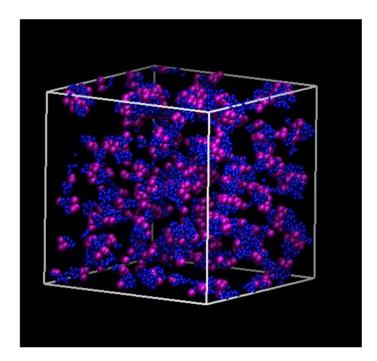


Figure S3 Snapshots of model polymer T_n -H with $a_{HS} = 45$. The diameter of hydrophilic head is $3.0r_C$.

Video S1 Formation of the vesicles formed by T₅-H with the interaction parameter a_{HS} =25. The size of the hydrophilic head is 2.0 $r_{\rm C}$.



Video S2 Formation of the pupa-like micelles formed by T₅-H with the interaction parameter a_{HS} =40. The size of the hydrophilic head is 2.0 $r_{\rm C}$.



Video S3 Formation of the segmented rod-like micelles formed by T_{11} -H with the interaction parameter $a_{HS} = 25$. The size of the hydrophilic head is $2.5r_{C}$.

