

A Supramolecular Assembly of Hemoproteins Formed in a Star-Shaped Structure via Heme-Heme Pocket Interactions

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ELECTRONIC SUPPLEMENTARY INFORMATION

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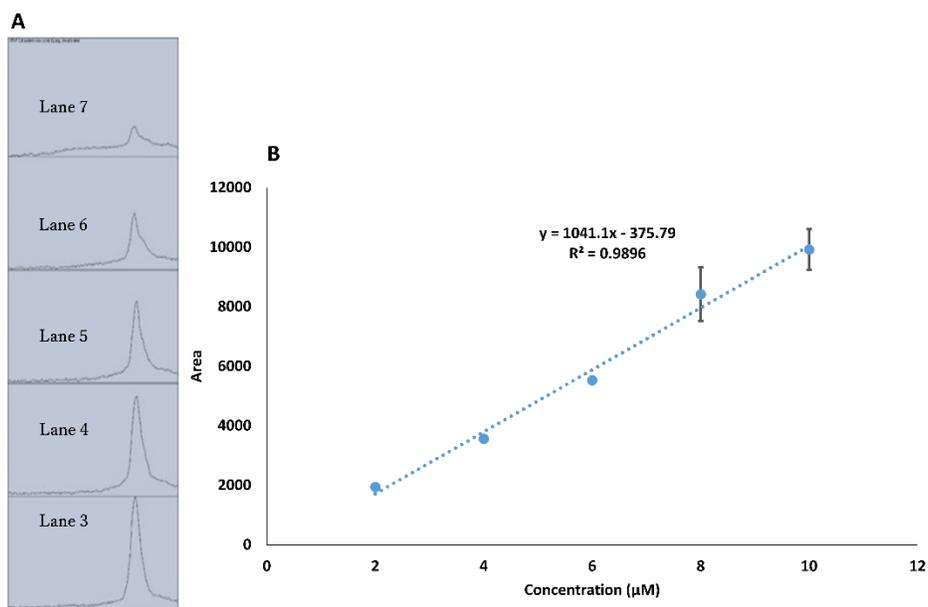


Figure S1: (A) Plots of peak area of the intensity derived from band density against the HTHP concentration as a monomer. (B) Plots of intensity derived from band density against migration distance by image analysis for lanes 3-7 of SDS-PAGE in Figure 7. Broken line shows corresponding least square fitting.

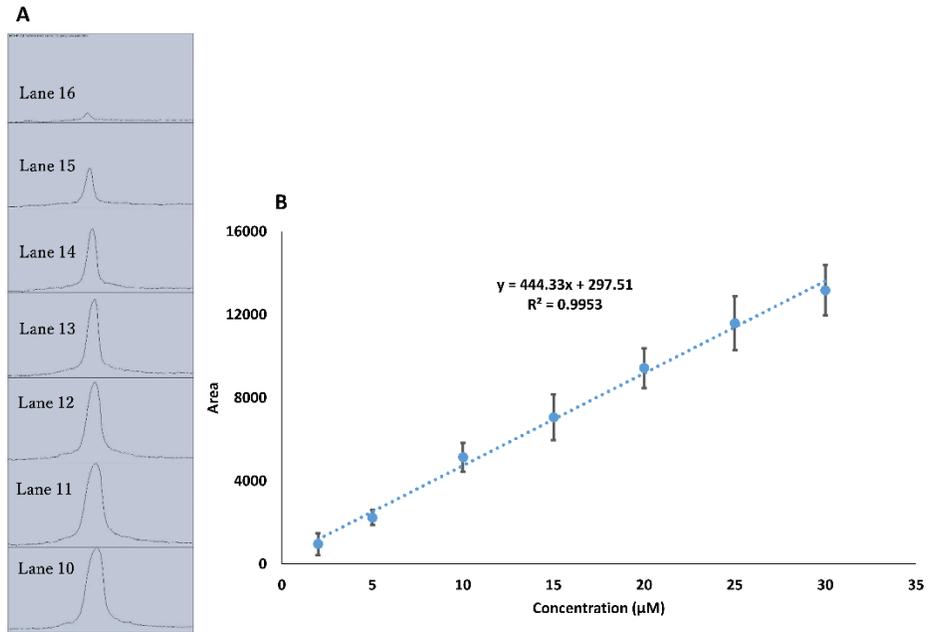


Figure S2. (A) Plots of peak area of the intensity derived from band density against the concentration of 1-Cyt b_{562}^{N80C} . (B) Plots of intensity derived from band density against migration distance by image analysis for lanes 10-16 of SDS-PAGE in Figure 7. Broken line shows corresponding least square fitting.

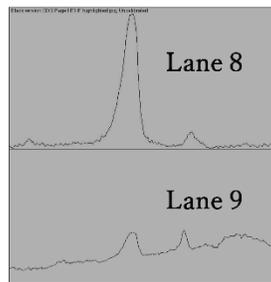


Figure S3. Plots of intensity derived from band density against migration distance by image analysis for lanes 8 and 9 of SDS-PAGE in Figure 7.

Table S1: Peak areas of SDS-PAGE bands for various concentration of HTHP.

| Lane | Concentration as a monomer (μM) | Peak area ¹ |
|------|--|------------------------|
| 3 | 10 | 9919 ± 674 |
| 4 | 8 | 8417 ± 897 |
| 5 | 6 | 5525 ± 103 |
| 6 | 4 | 3556 ± 99 |
| 7 | 2 | 1937 ± 65 |

¹The error for each peak area was obtained from the standard deviation of three separate SDS PAGE experiments.

Table S2. Peak areas of SDS-PAGE bands for various concentration of **1-Cyt b_{562}^{N80C}** .

| Lane | Concentration (μM) | Peak area ¹ |
|------|---------------------------------|------------------------|
| 10 | 30 | 13176 \pm 1201 |
| 11 | 25 | 11594 \pm 1292 |
| 12 | 20 | 9436 \pm 960 |
| 13 | 15 | 7066 \pm 1095 |
| 14 | 10 | 5142 \pm 698 |
| 15 | 5 | 2238 \pm 363 |
| 16 | 2 | 970 \pm 105 |

¹The error for each peak area was obtained from the standard deviation of three separate SDS PAGE experiments.

Table S3. Peak areas of SDS-PAGE bands for assemblies.

| Lane | Assembly | Components | Peak areas ¹ | Concentration as a monomer (μM) ² |
|------|---|--|-------------------------|---|
| 9 | 1/1-(1-Cyt b_{562}^{N80C}) _n -apoHTHP assembly | 1-Cyt b_{562}^{N80C} | 2392 \pm 214 | 4.7 \pm 0.19 |
| | | apoHTHP | 2312 \pm 83 | 2.6 \pm 0.44 |
| 8 | 3/1-(1-Cyt b_{562}^{N80C}) _n -apoHTHP assembly | 1-Cyt b_{562}^{N80C} | 4125 \pm 825 | 8.3 \pm 1.2 |
| | | apoHTHP | 3047 \pm 153 | 3.2 \pm 0.51 |

¹The error for each peak area was obtained from the standard deviation of three separate SDS PAGE experiments. ²Concentrations were determined from the peak areas and calibration curve for each protein.