Supporting Information

Chiral Hybrid Mesoporous Silicas: Assembly of Uniform Hollow Nanospheres and Helical Nanotubes with Tunable Diameters

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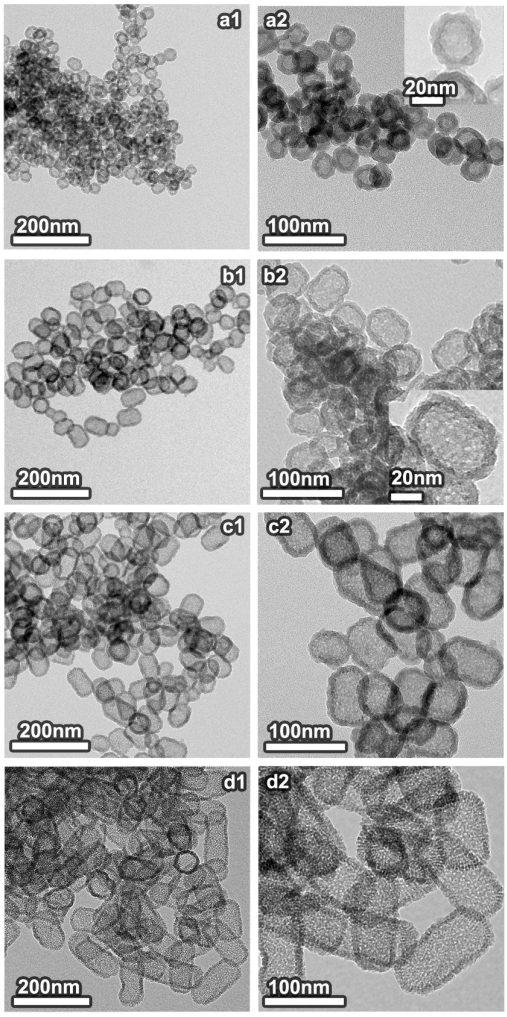


Figure 1-SI. TEM images of extracted chiral hollow particles with different TMAPS/SDS molar ratios of 0.4 (a), 0.6 (b), 0.8 (c) 1.0 (d) without any dopant.

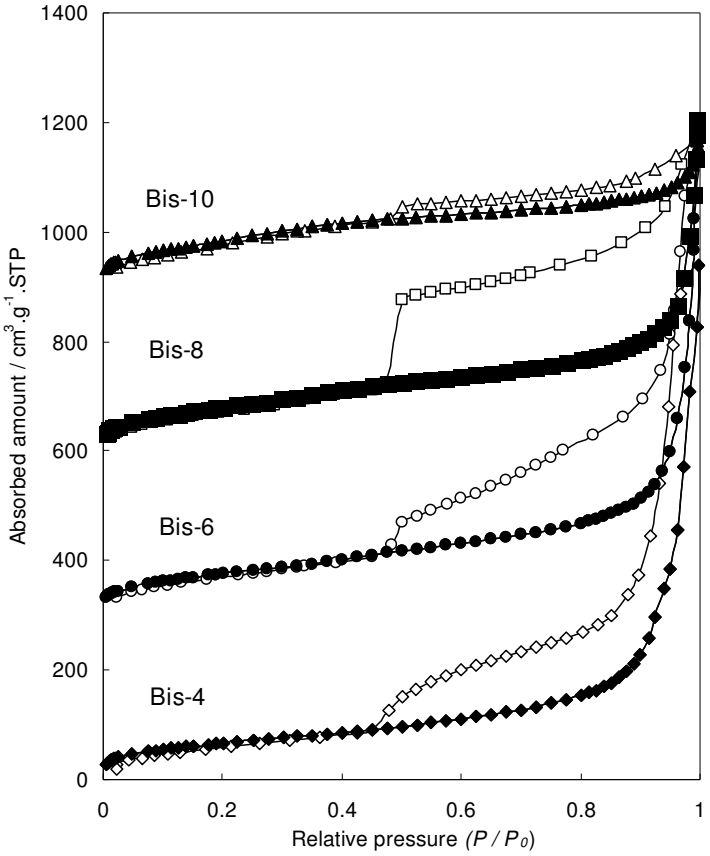


Figure 2-SI Nitrogen sorption isotherms of the extracted sample with different TMAPS / SDS molar ratios of 0.4(a), 0.6 (b), 0.8 (c) 1.0(d) when **1** is employed as the chiral dopant. The curve offset 900, 600 and 300 from top to the bottom.

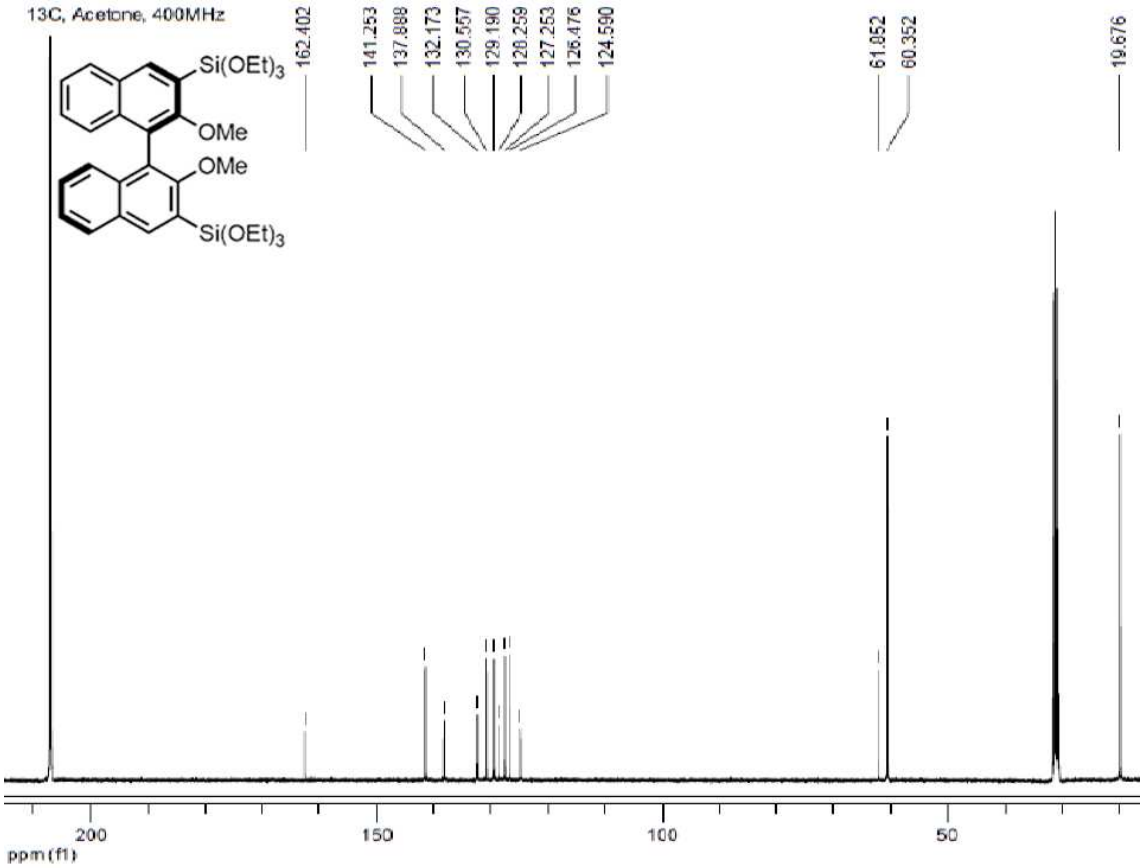
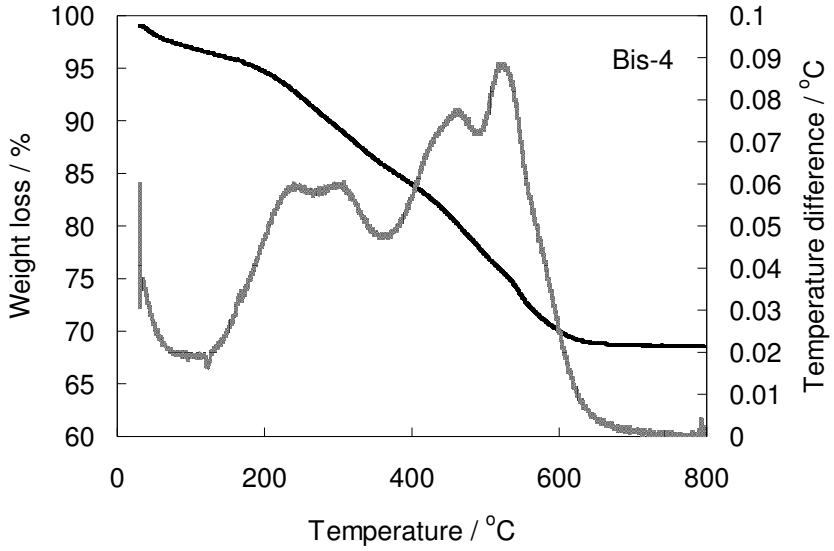
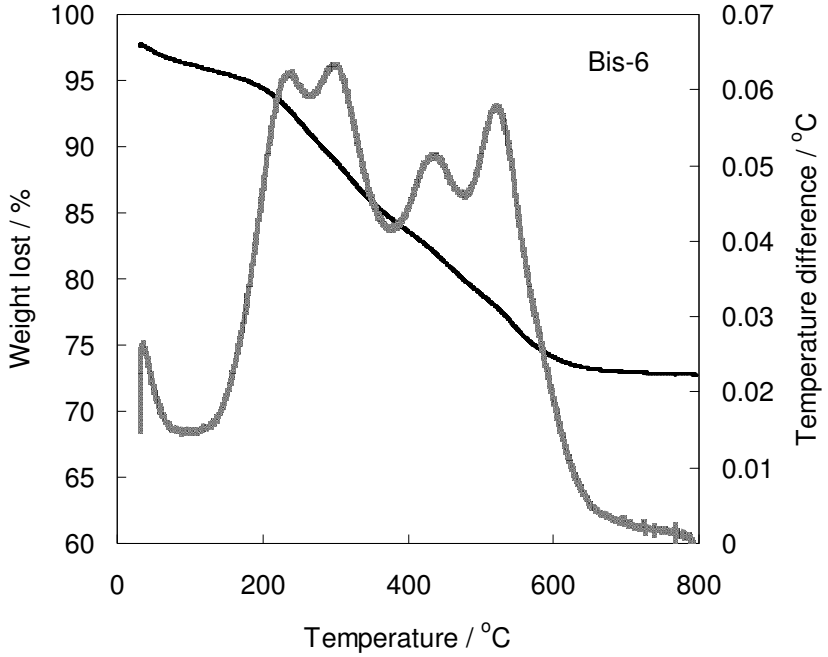
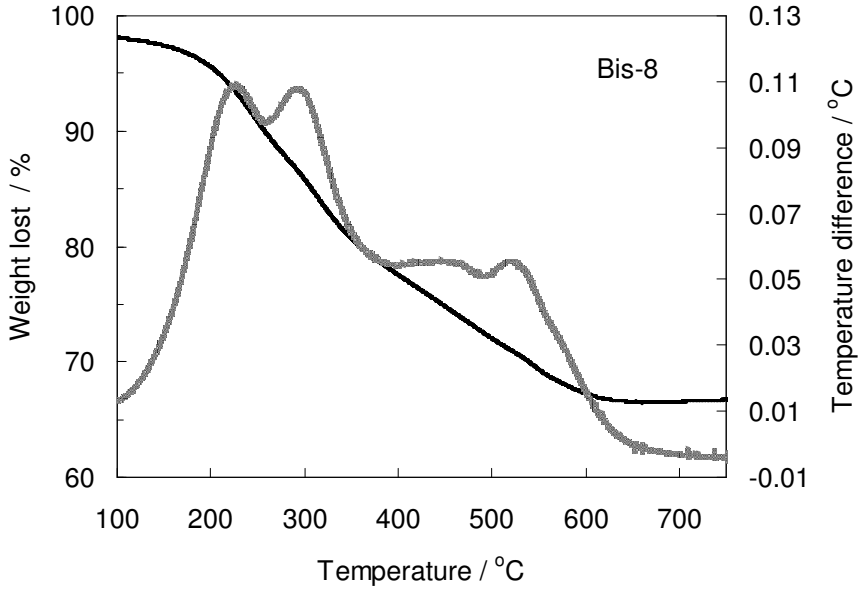


Figure 3-SI. ^{13}C spectrum of 2,2'-dimethoxy-1,1'-binapthyl-3-triethoxysilane in d_6-acetone




Bis-6
Weight lost / %
Temperature difference / °C
Temperature / °C
100
95
90
85
80
75
70
65
60
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
0
200
400
600
800


Bis-8
Weight lost / %
Temperature difference / °C
Temperature / °C
100
90
80
70
60
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
100
200
300
400
500
600
700

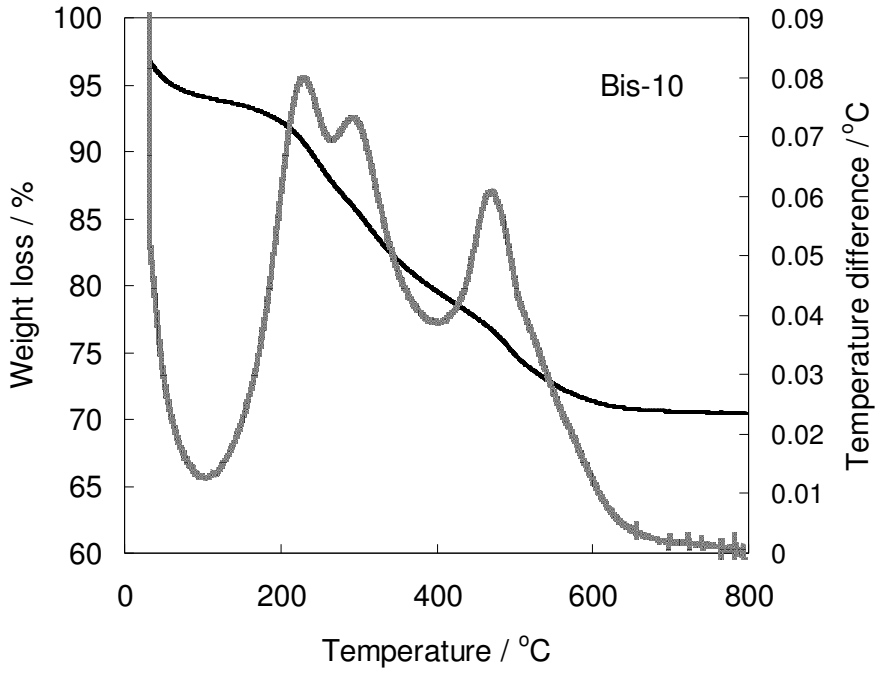


Figure 4-SI TG-DTA curve for the sample of Bis-4, Bis-6, Bis-8 and Bis-10

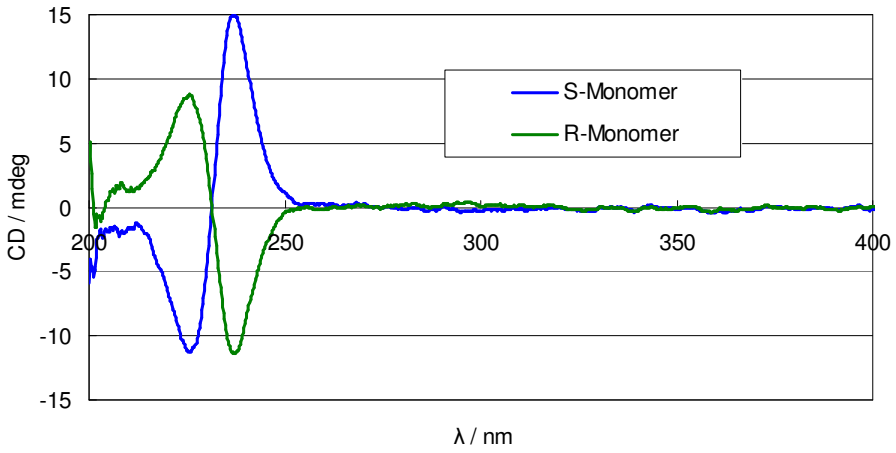


Figure 5-SI. **CD** spectra of *R/S*-Monomer

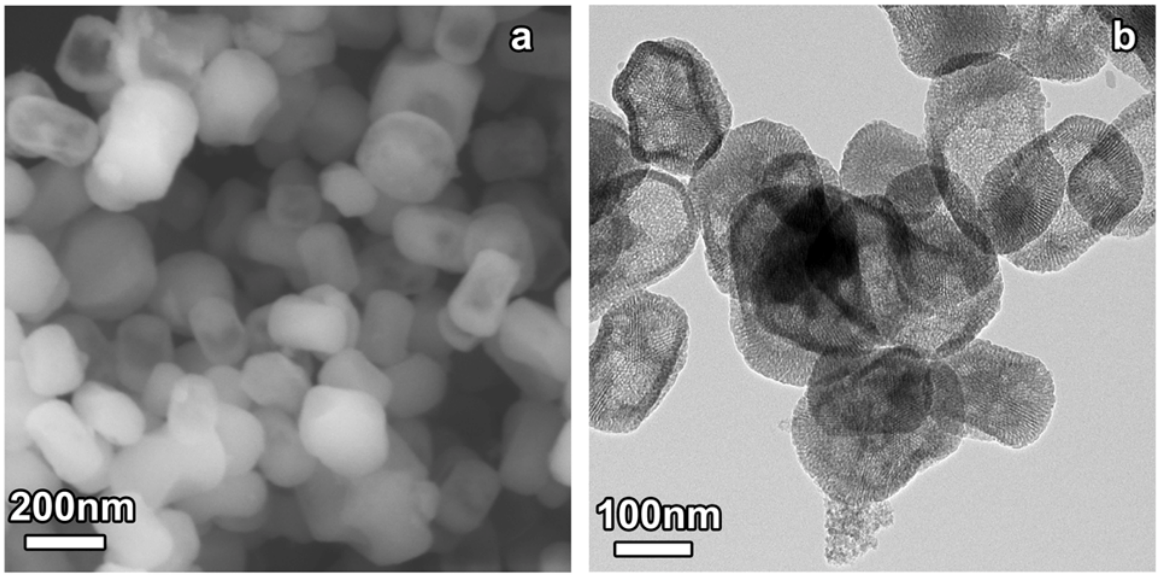


Figure 6-SI. TEM images of extracted chiral hollow particles with TMAPS/SDS molar ratios of 1.2 when add **2** to the silica wall.

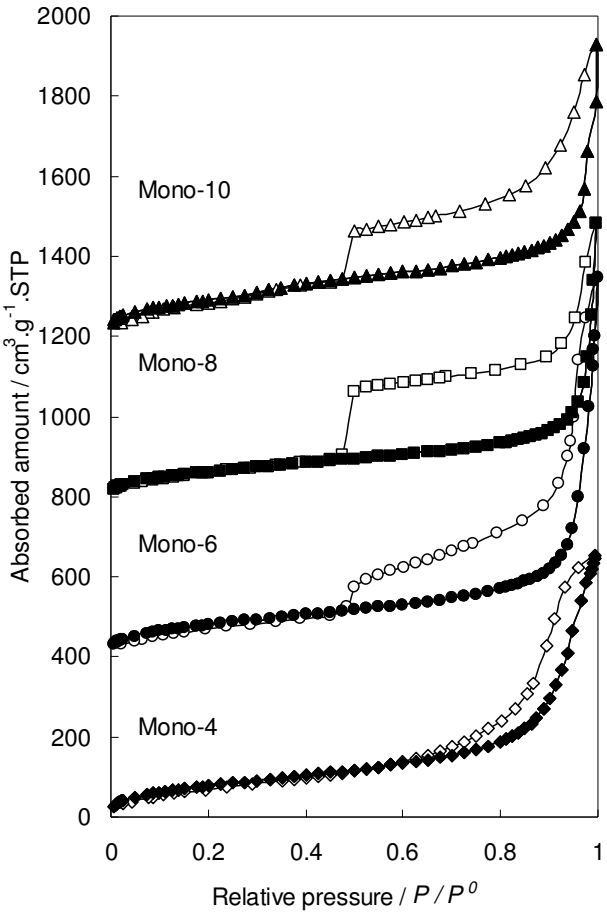


Figure 7-SI. Nitrogen sorption isotherms of the extracted sample with different TMAPS / SDS molar ratios of 0.38 (a), 0.58 (b), 0.78 (c) 0.98 (d) when **2** is employed as the chiral dopant. The curve is offset 900, 600 and 300 from top to the bottom.

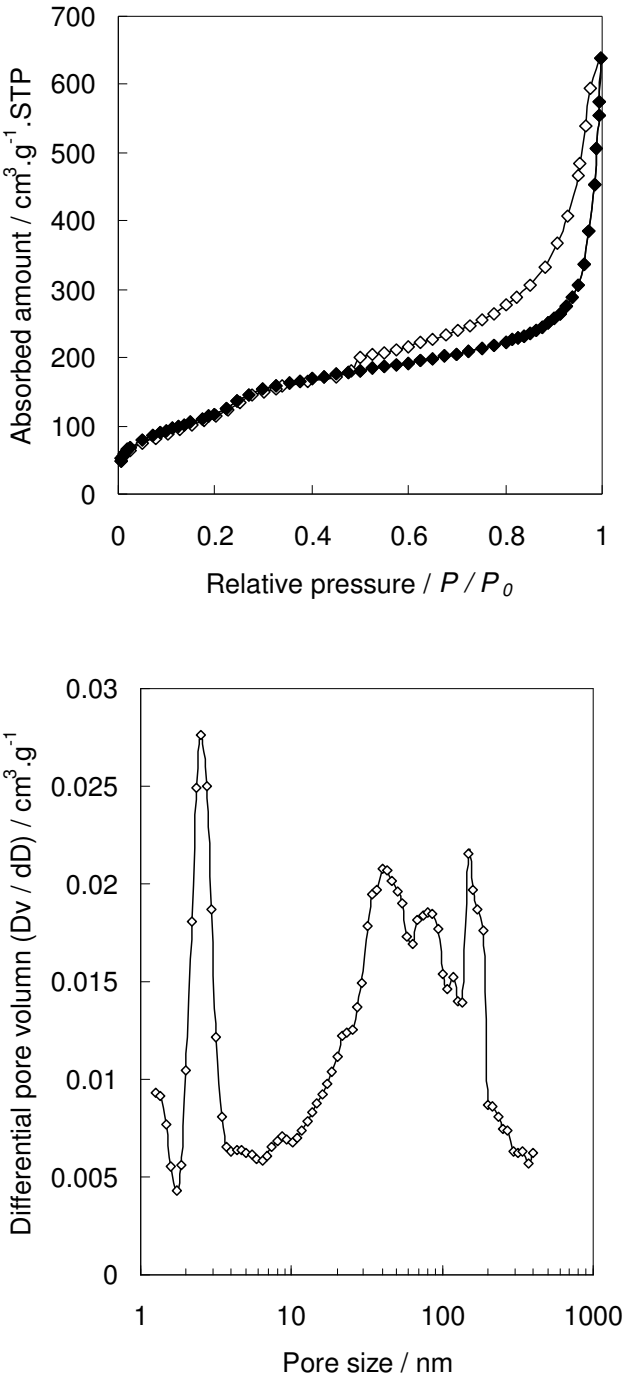


Figure 8-SI. A) Nitrogen sorption isotherms of the extracted sample with TMAPS / SDS molar ratios of 1.2 when **2** is employed as the chiral dopant. B) The corresponding DFT pore size distribution.

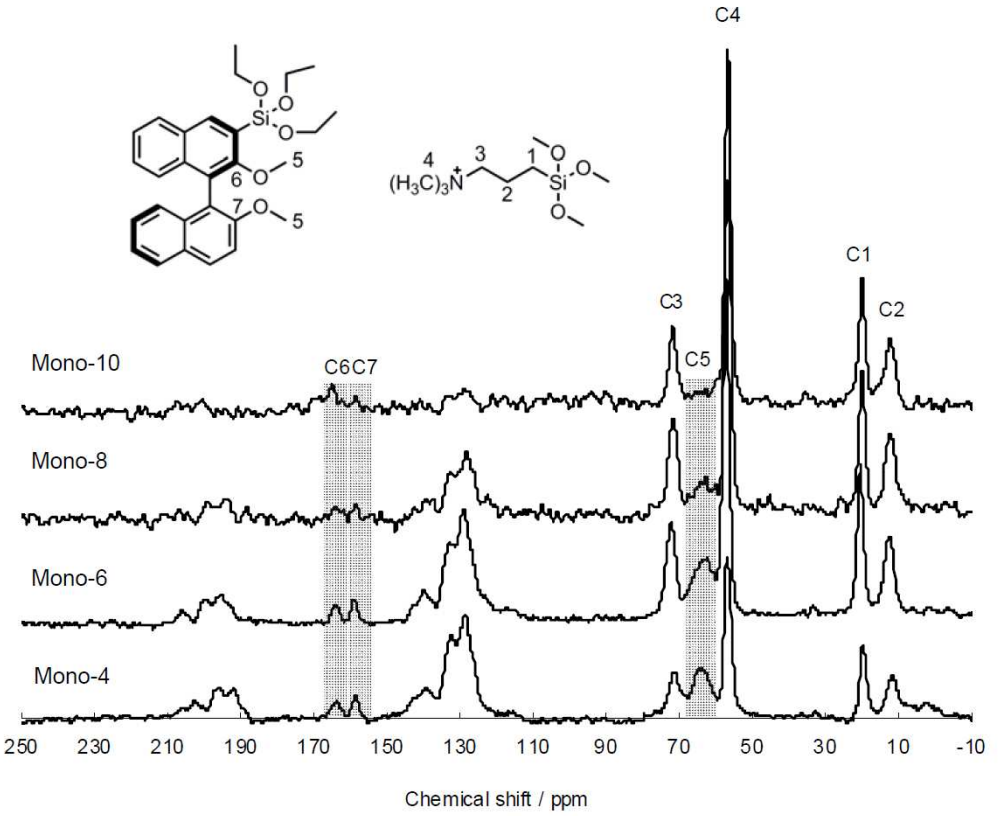


Figure 9-SI. ^{13}C CP MAS NMR spectra of the samples extracted chiral hollow particles with different TMAPS / SDS molar ratios of 0.4, 0.6, 0.8 and 1 when **2** is employed as the chiral dopant.

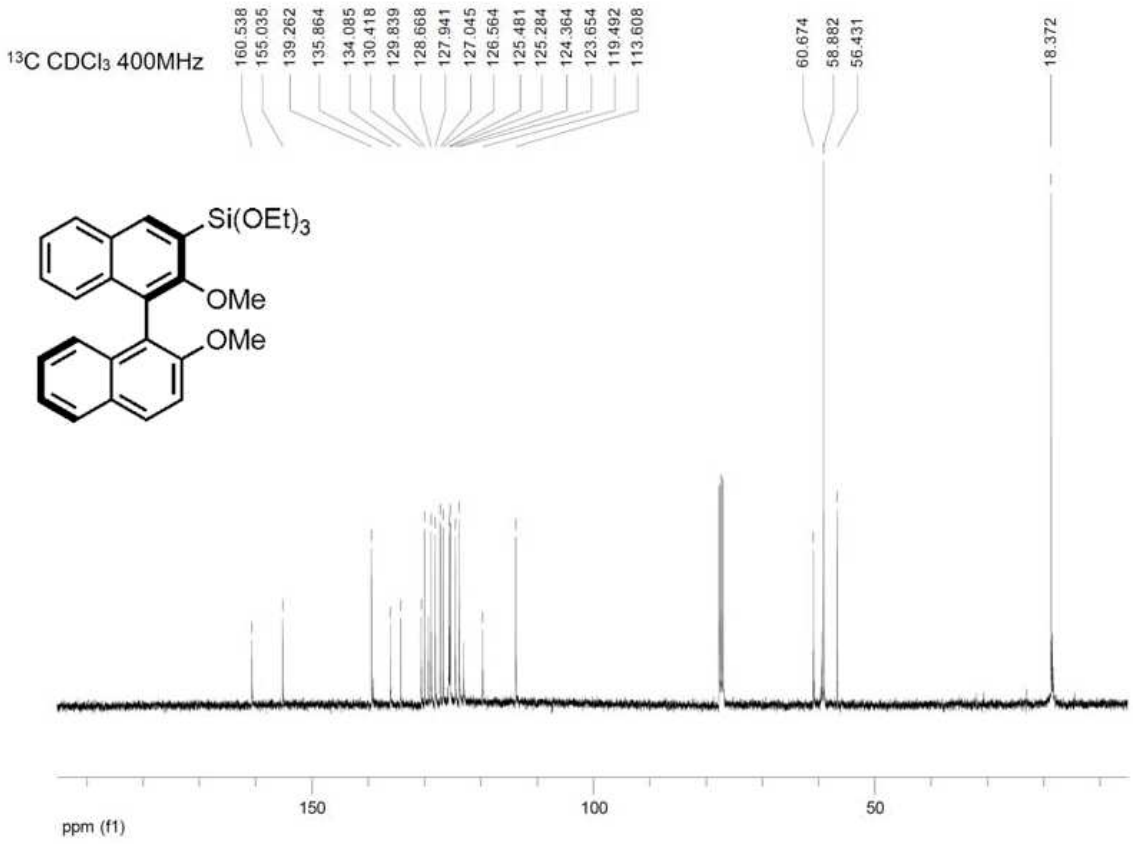


Figure 10-SI. ^{13}C spectrum of 2,2'-dimethoxy-1,1'-binapthyl-3-triethoxysilane in $CDCl_3$.

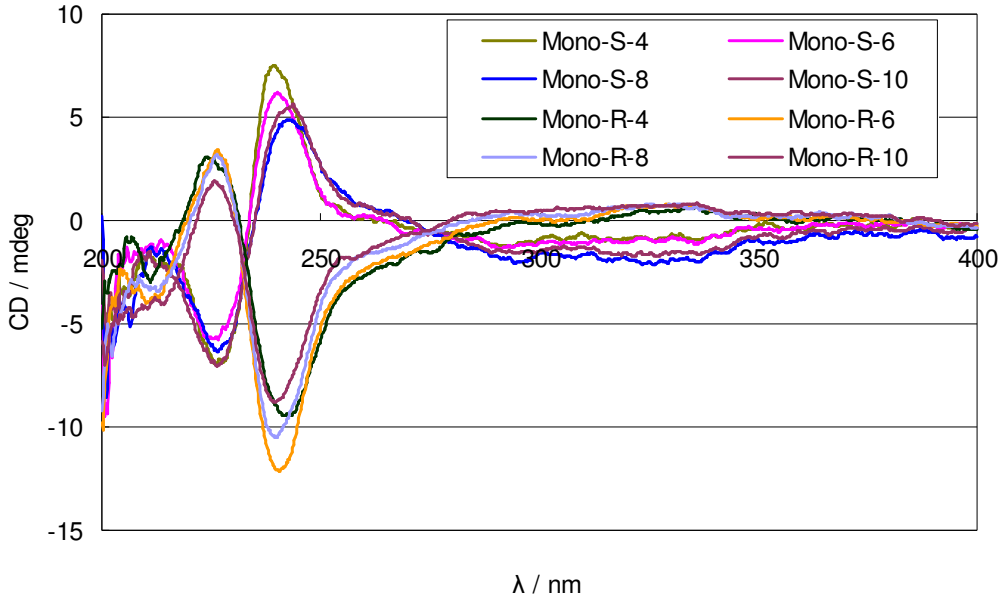
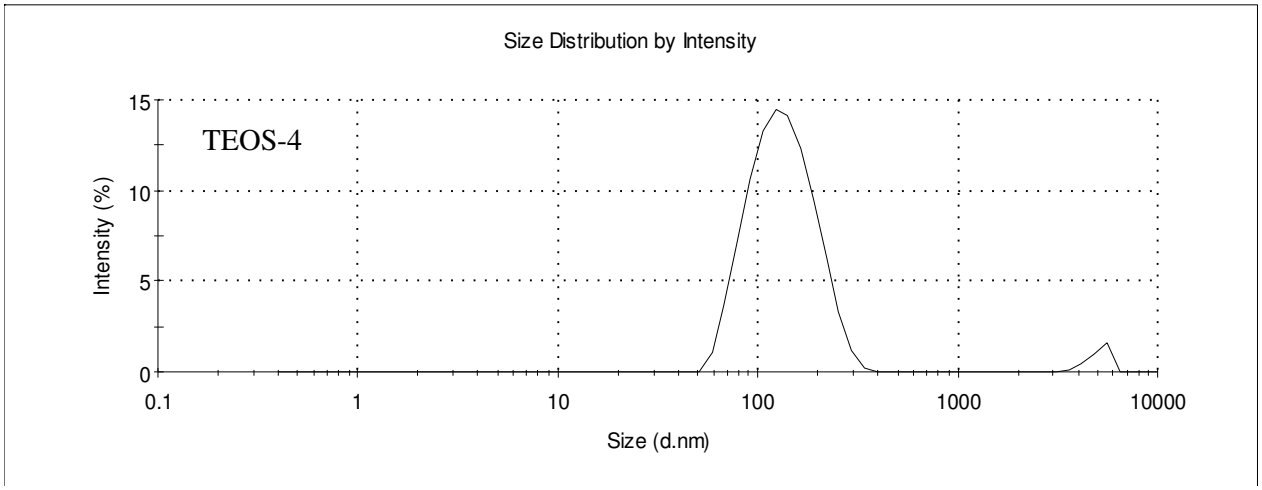
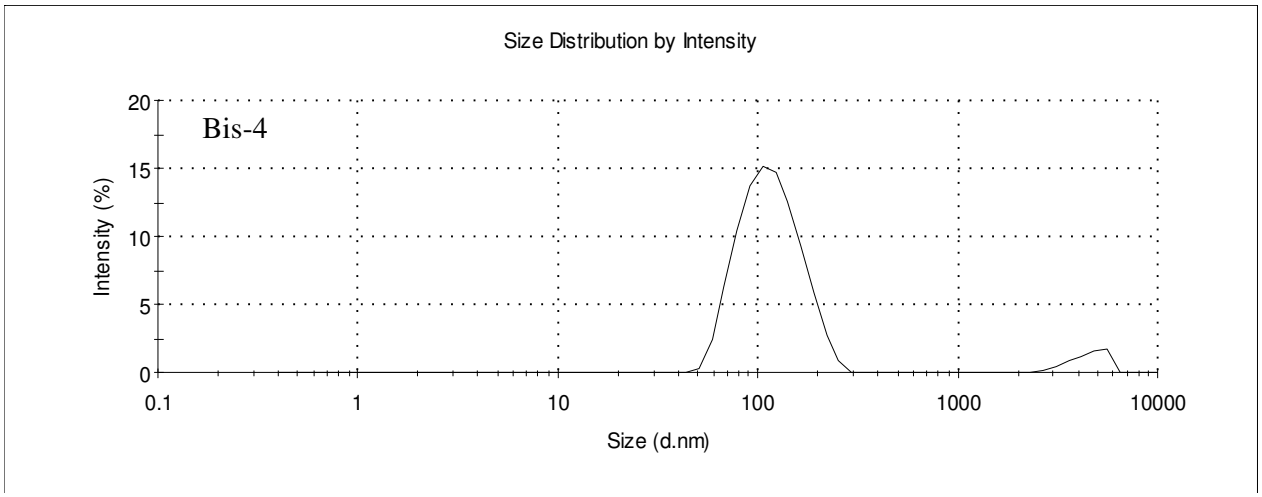


Figure 11-SI. CD spectra of Mono-R/S-4, Mono-R/S-6, Mono-R/S-8 and Mono-R/S-10.

Table 1-SI: Particle Diameters Obtained from DLS Measurements and TEM and Zeta Potential of TEOS-4, Bis-4, and Mono-4.

Samples	Hydrodynamic diameter [nm]	Diameter (TEM) [nm]	Zeta potential [mv]
TEOS-4	133	35±4	+25
Bis-4	118	33±3	+30
Mono-4	121	31±3	+31





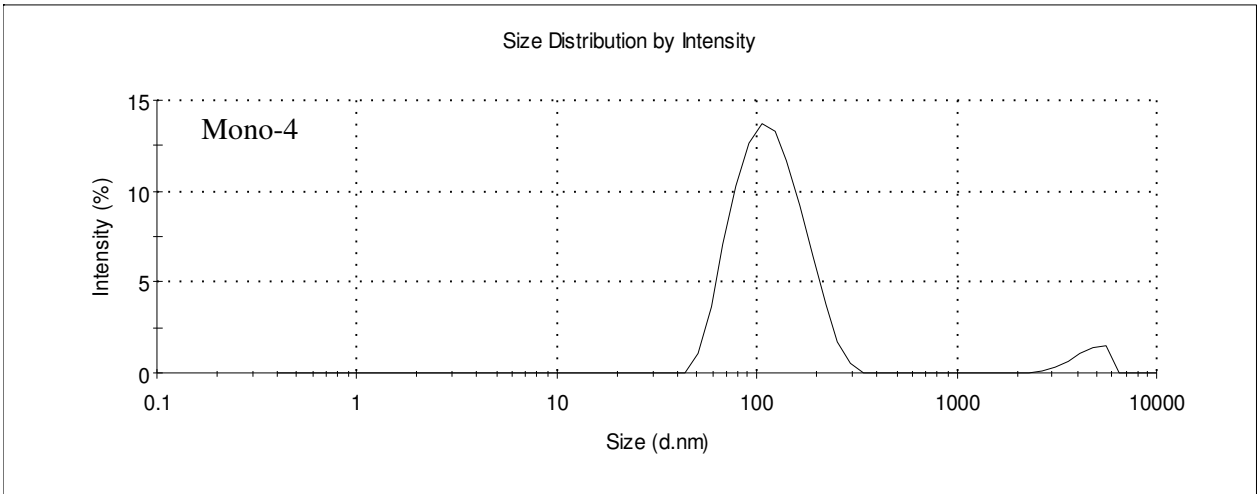


Figure 12-SI. Particle sizes distribution from DLS Measurements of TEOS-4, Bis-4, and Mono-4.