Support Information

Reversible photo-responsive vesicle based on the complexation between azobenzene contained molecule and α-cyclodextrin

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Fig. S1. 1HNMR spectrum (500 MHz, CD3Cl, 298.2 K) of N-BOC-11-aminoundecanoic acid.
Fig. S2. $^1$HNMR spectrum (500 MHz, CD$_3$OD, 298.2 K) of Azo 11 amide.

Fig. S3. $^1$HNMR spectrum (500 MHz, CD$_3$OD, 298.2 K) of Azo-Cl.
Fig. S4. ESI-MS spectrum of Azo 11 amide. Main peak: m/z 381.3, 382.4.

Fig. S5. ESI-MS spectrum of Azo-Cl. Main peak: m/z 423.5, 424.5.
Fig. S6. Absorbance variation at 346 nm of trans Azo-Cl ($1.2 \times 10^{-4}$ M) in the presence of equimolar α-CD with UV irradiation time and afterwards with Vis irradiation time (the dash lines were the fitting curves).