Supporting information for

Reversible Photodimerization of Coumarin-Modified Wells-Dawson Anions

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1. $^1$H NMR and $^{31}$P NMR spectroscopy of compound 4

![Figure S1](image_url). a) $^1$H NMR and b) $^{31}$P NMR of compound 4.

2. FT-IR spectroscopy

![Figure S2](image_url). FT-IR of compound 1.
Figure S3. FT-IR of compound 2.

Figure S4. FT-IR of compound 3.
3. ESI-MS of compound 1 and 2

Figure S5. ESI-MS of compound 1.

Figure S6. ESI-MS of compound 2.

4. TEM images of the dimer particles after photo-irradiation of compound 4.