Supporting Information

for

Photo-Responsive Europium(III) Complex Based on Photochromic Reaction

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Figure S1 1H-NMR spectrum of [Eu(hfa)3(THIA)2-O]
Figure S2  ESI-Mass spectrum of [Eu(hfa)₃(THIA)₂-O]. inset : (a) measured, 1581.06686 (m⁺), (b) calcd., 1581.07689 (m⁺).

Figure S3  IR spectrum of [Eu(hfa)₃(THIA)₂-O]: ATR
Figure S4 Absorption spectra of a) THIA and b) [Eu(hfa)₃(THIA)₂] upon UV light irradiation (bar: results of TD-DFT calculation of THIA-C).