Electronic Supplementary Material (ESI) for Photochemical & Photobiological Science

Photoremovable protecting groups as controlled release device for pheromone

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Content: Pages

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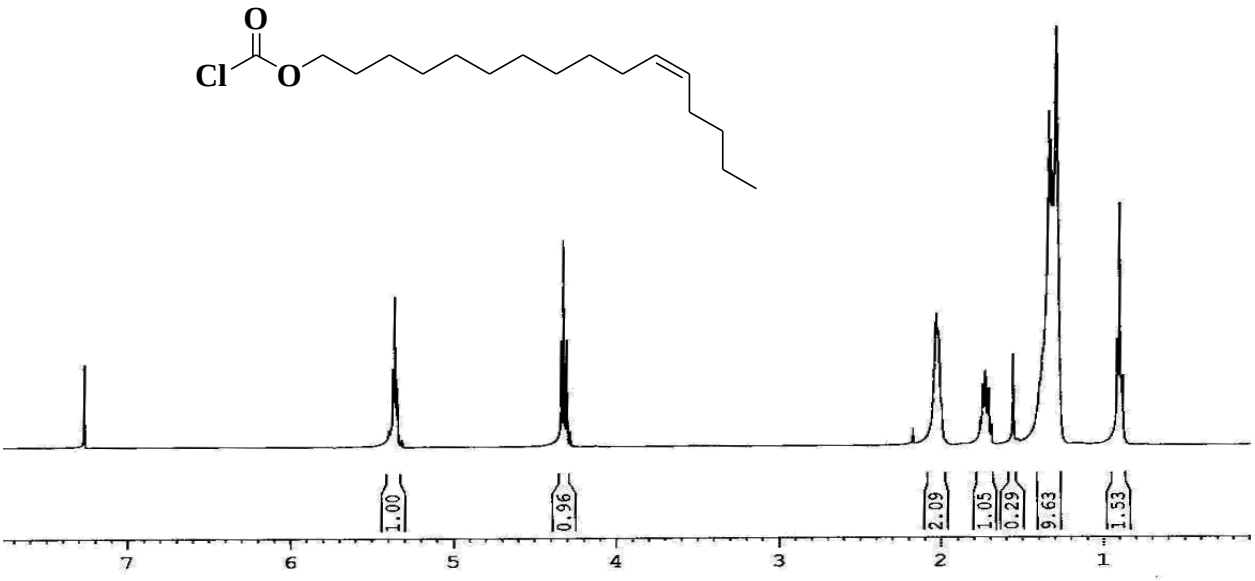
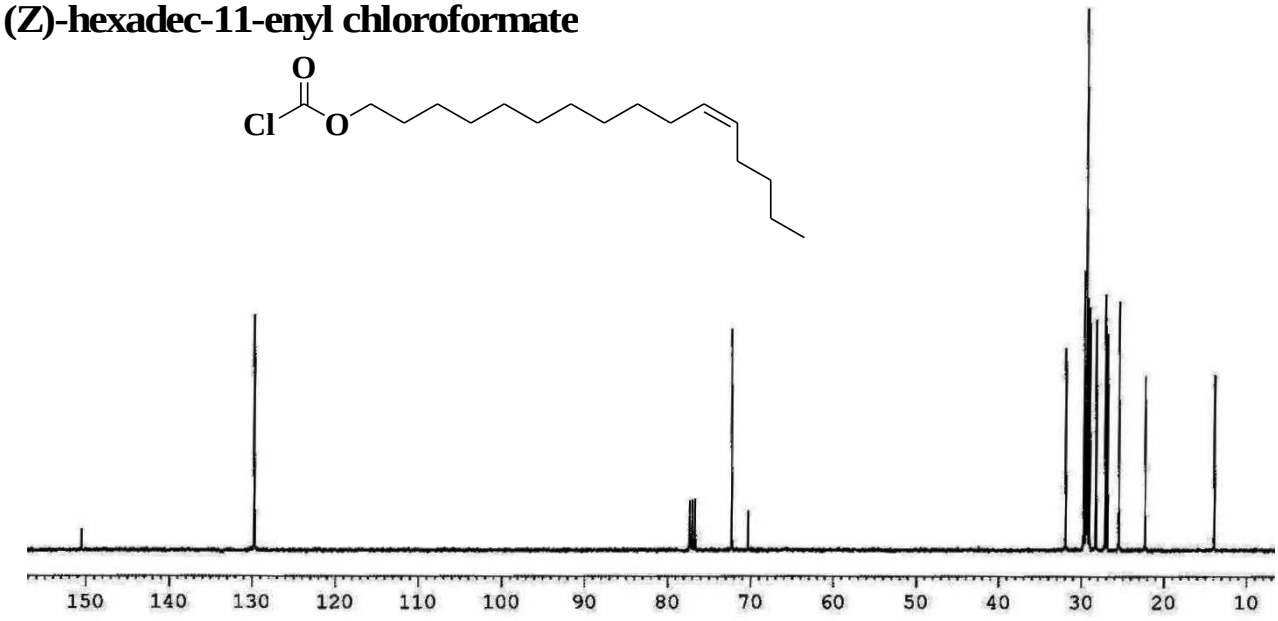
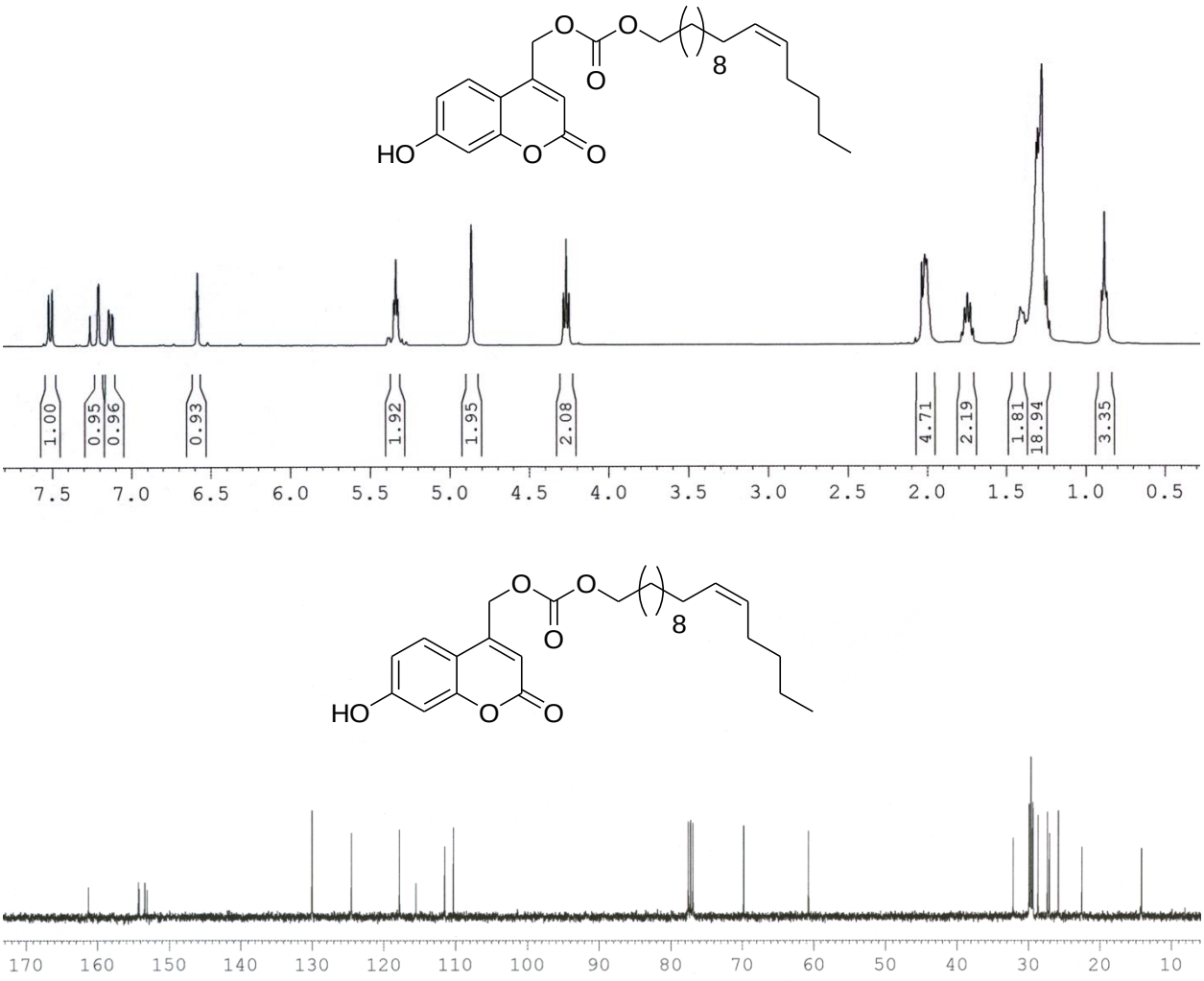
(Z)-hexadec-11-enyl chloroformate



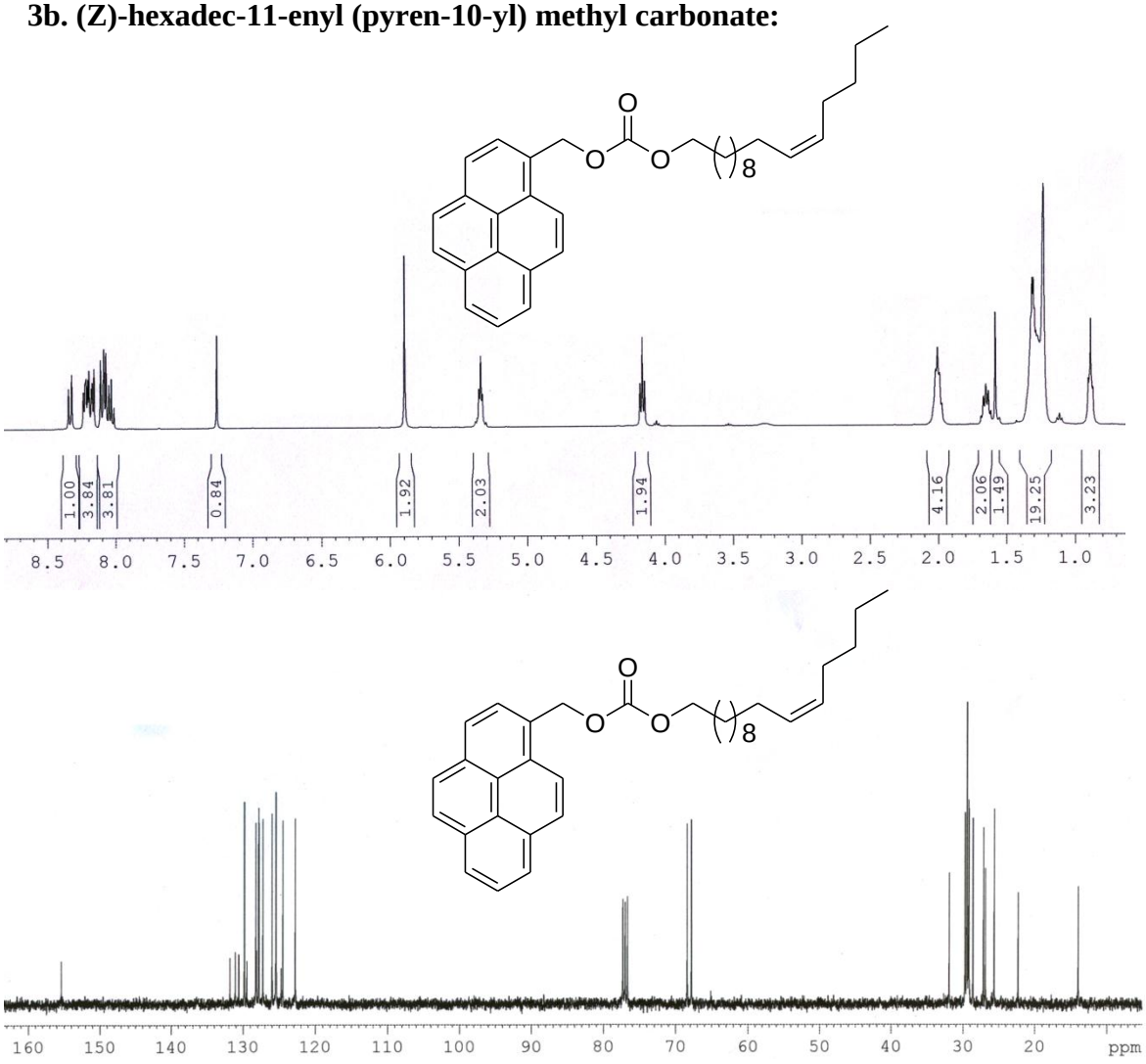
(Z)-hexadec-11-enyl chloroformate



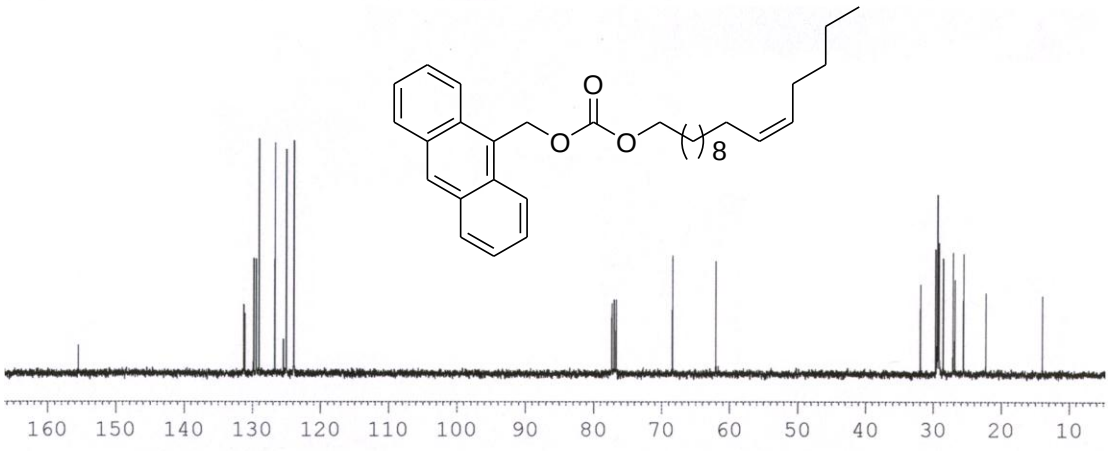
3a. (Z)-hexadec-11-enyl (7-hydroxy-2-oxo-2H-chromen-4-yl) methyl carbonate:



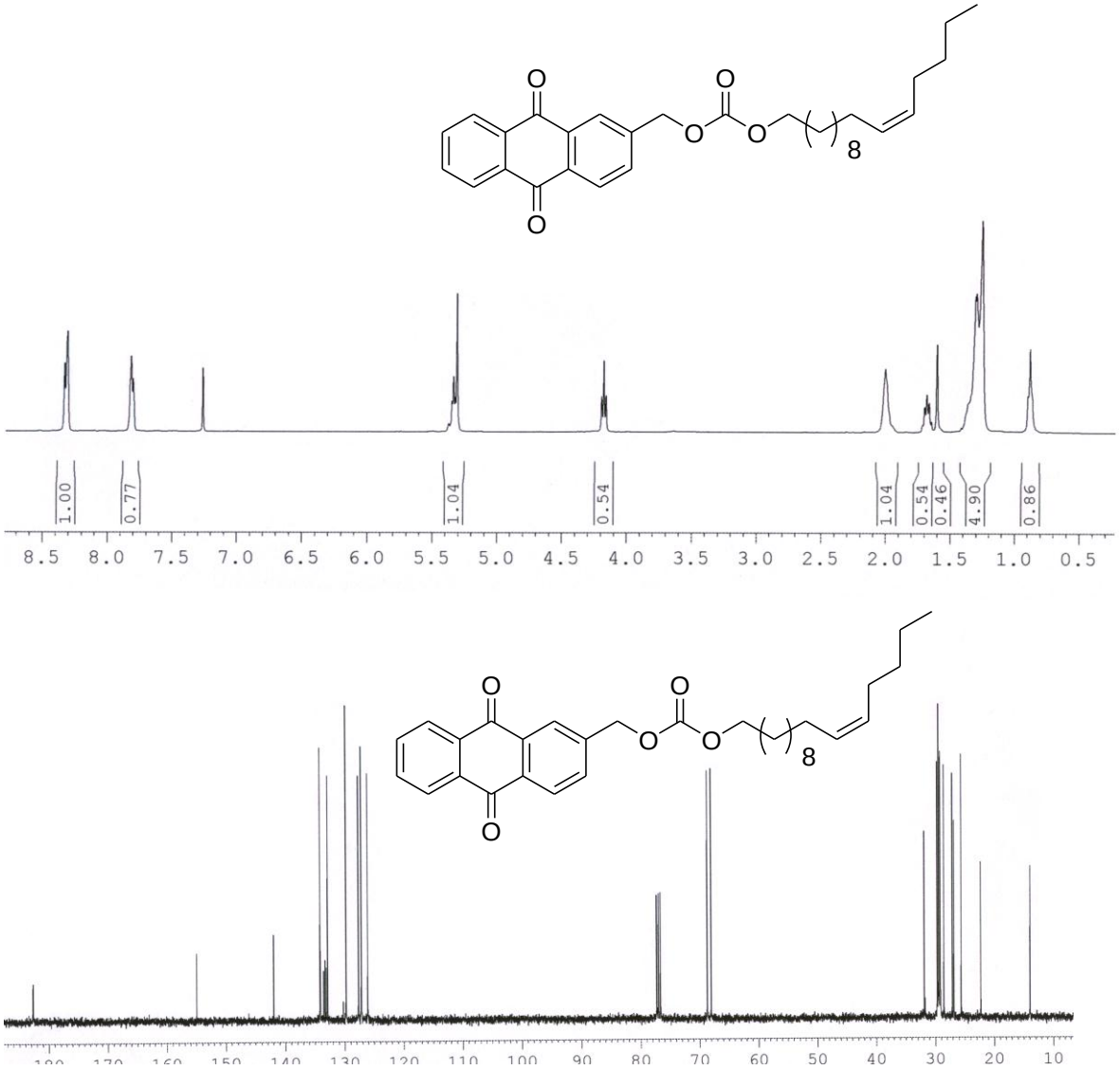
3b. (Z)-hexadec-11-enyl (pyren-10-yl) methyl carbonate:



3c. (anthracen-9-yl) methyl (Z)-hexadec-11-enyl carbonate:



3d. (Z)-hexadec-11-enyl (9, 10-dioxoanthracen-6-yl) methyl carbonate:



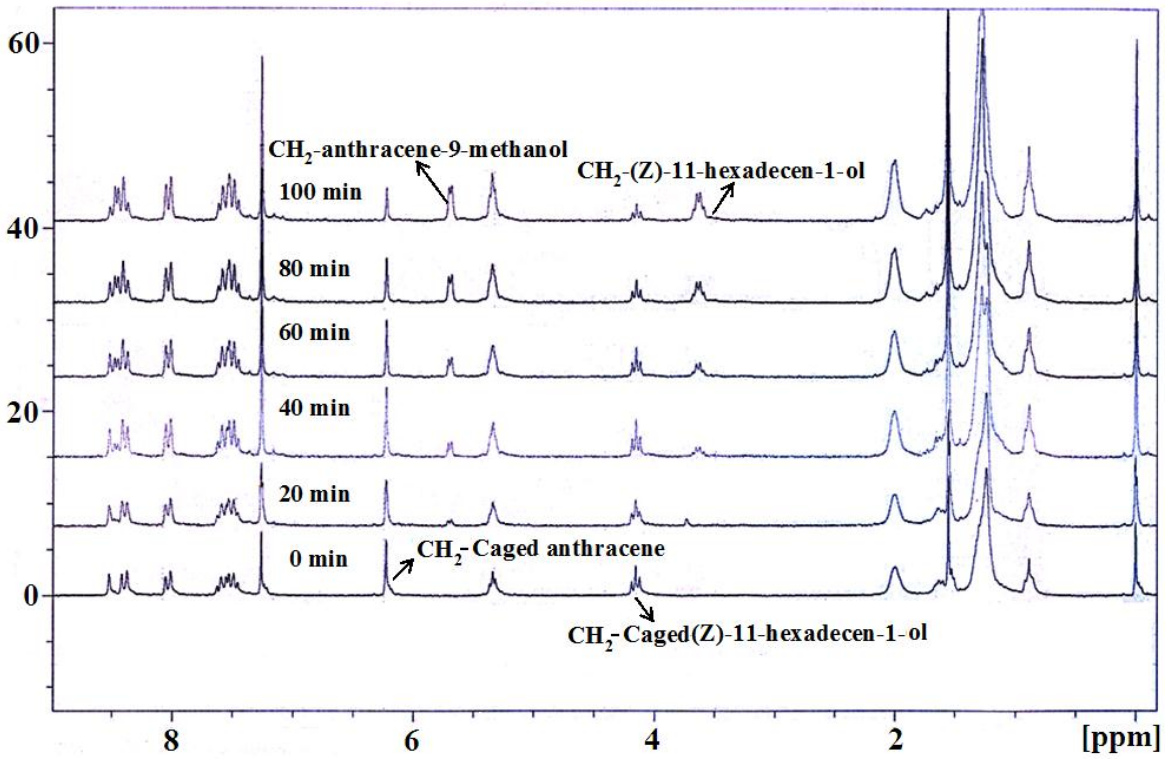


Figure S1: ^{1}H NMR spectra of caged compound **3c** at regular intervals of irradiation

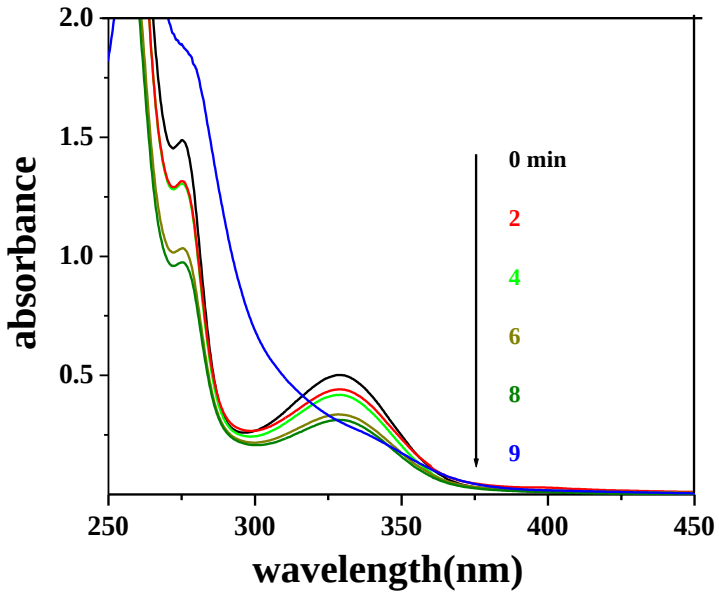


Fig. **S2:** Absorption spectra of caged compound **3d** in aqueous ethanolic solution at regular intervals of irradiation by UV light (≥ 350nm).

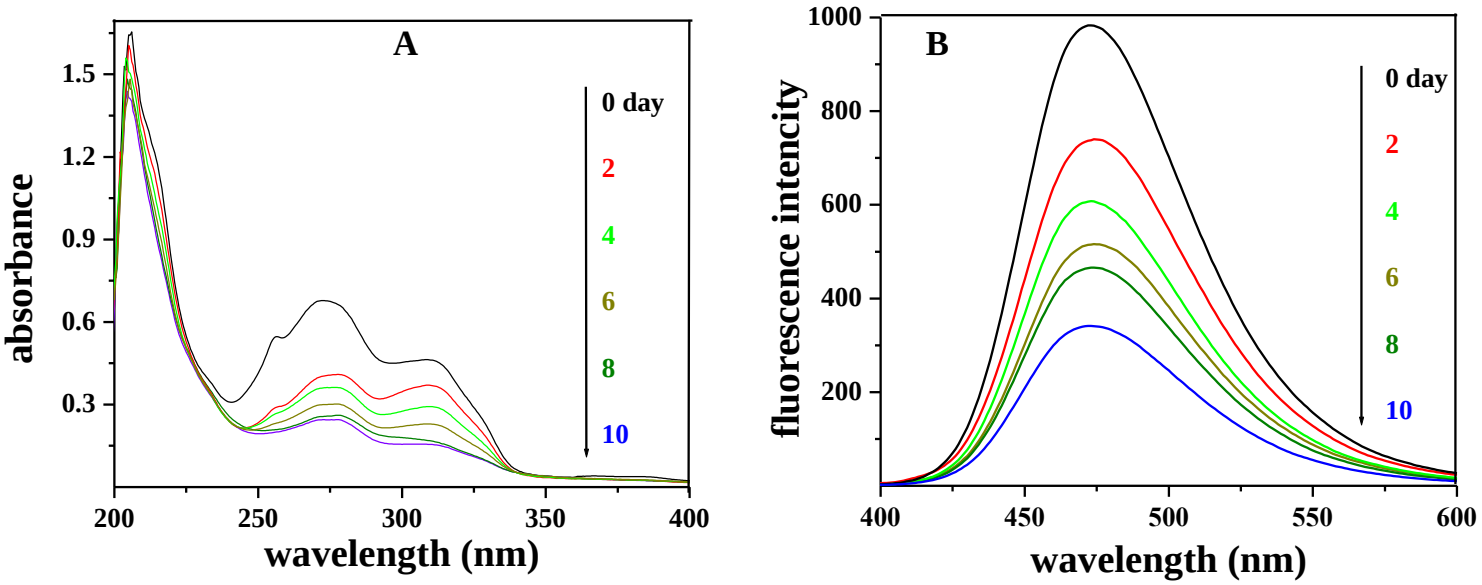


Fig. S3: Absorption (A) and emission (B) spectra of caged compound **3a** in aqueous ethanolic solution at regular intervals under direct sunlight irradiation.

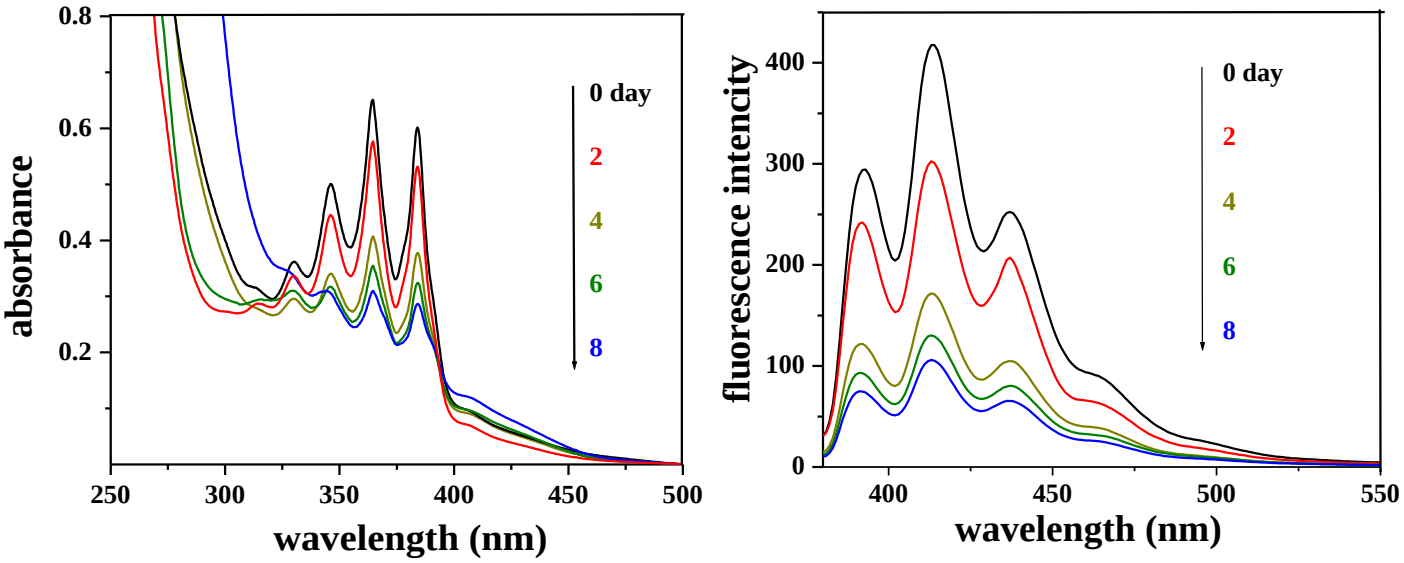


Fig. **S4:** Absorption (A) and emission (B) spectra of caged compound **3c** in loam soil at regular intervals under direct sunlight irradiation.