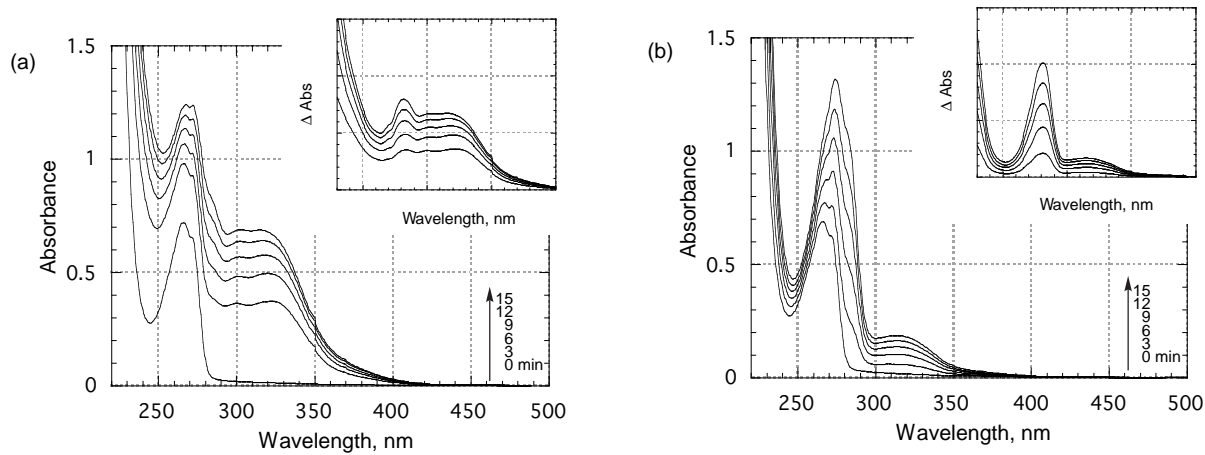


## Supporting Information

### Perfect Switching of Photoreactivity by Acid: Photochemical Decarboxylation versus Transesterification of Mesityl Cyclohexanecarboxylate

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**Figure A.** Spectral changes upon irradiation of mesityl cyclohexanecarboxylate **1** (a) in the absence ( $[1] = 2.29$  mM) and (b) in the presence ( $[1] = 2.13$  mM) of methanesulfonic acid (2.80 mM) in acetonitrile (5 mL) containing 0.34 M of ethanol at 0 °C. Inset: Subtraction spectra.