

Supplementary Materials

# Photo- and Acid-Degradable Polyacylhydrazone-Doxorubicin Conjugates

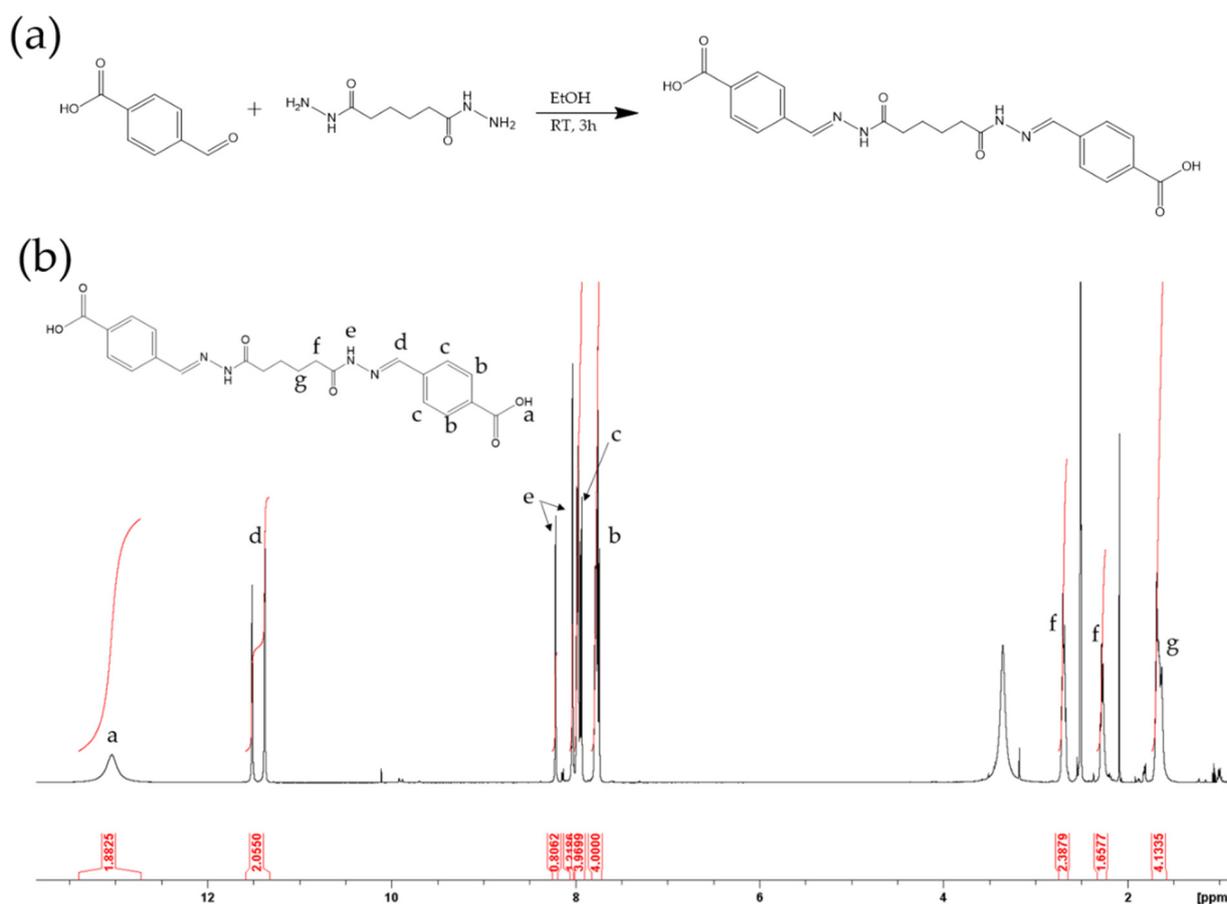
Maria Psarrou <sup>1</sup>, Martha Georgia Kothri <sup>2</sup> and Maria Vamvakaki <sup>1,3,\*</sup>

<sup>1</sup> Department of Materials Science and Technology, University of Crete, Vasilika Vouton, 700 13 Heraklion, Crete, Greece

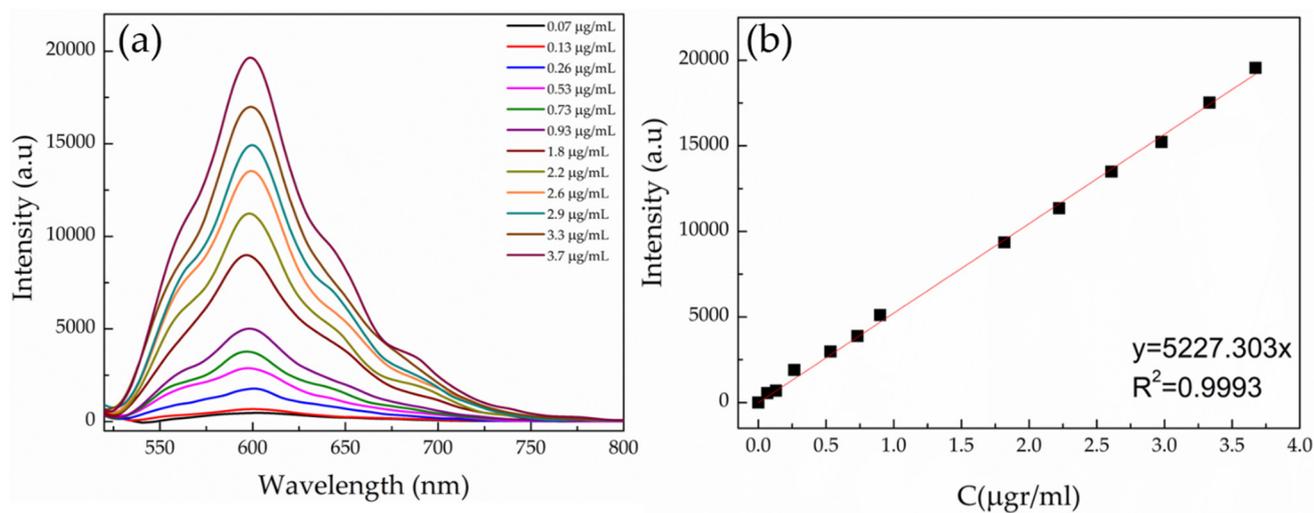
<sup>2</sup> School of Medicine, University of Crete, Vasilika Vouton, 700 13 Heraklion, Crete, Greece

<sup>3</sup> Institute of Electronic Structure and Laser, Foundation of Research and Technology-Hellas, Vasilika Vouton, 700 13 Heraklion, Crete, Greece

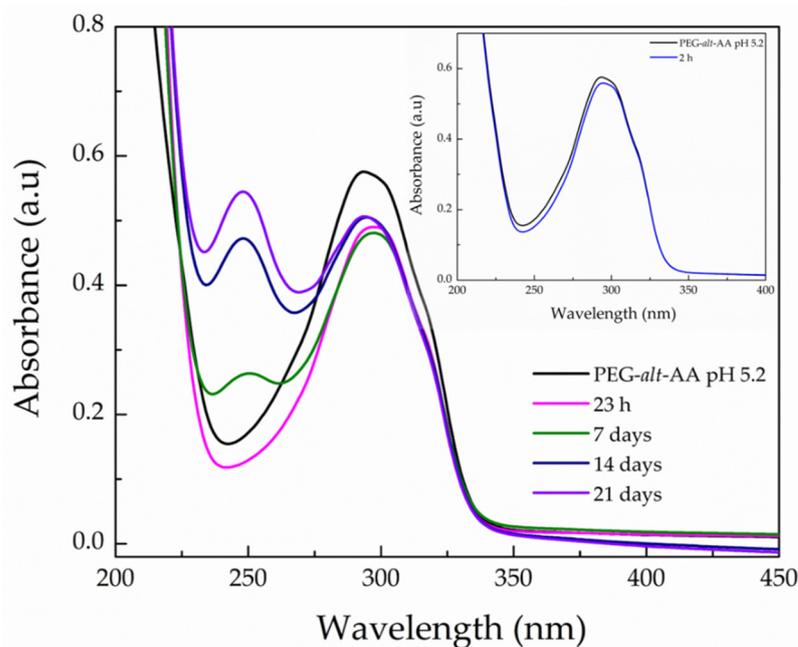
\* Correspondence: vamvakak@iesl.forth.gr, Tel.: +30-2810-545019



**Figure S1.** (a) Schematic representation of the synthetic procedure followed for the preparation of the small diacylhydrazone molecule and (b) <sup>1</sup>H NMR spectrum of the product in DMSO-d<sub>6</sub>.



**Figure S2.** (a) Fluorescence emission spectra of DOX as a function of the drug concentration in DMSO and (b) standard calibration curve of DOX.



**Figure S3.** UV-vis absorption spectra of an aqueous PEG-*alt*-AA solution at pH 5.2 at different time intervals. The inset shows the spectra at  $t = 0$  and after 2 h stirring at 37 °C.