Supplementary Materials

Ytterbium Complexes with Chlorin *e6* Derivatives for Targeted NIR-II Bioimaging

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# NMR data for synthesized chlorins

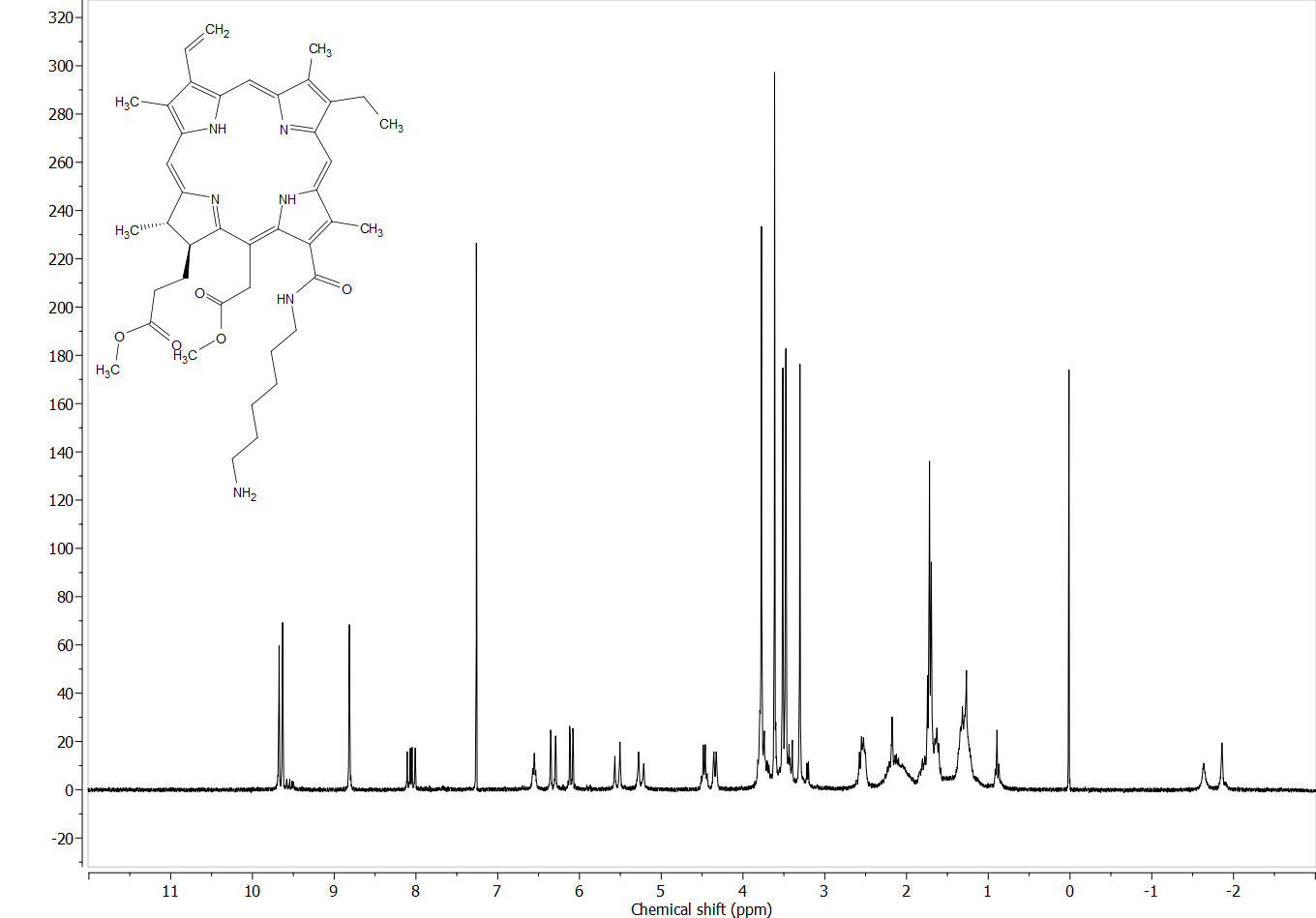


Figure S1: 1H NMR (CDCl3, 300 MHz) spectrum of compound **2**.

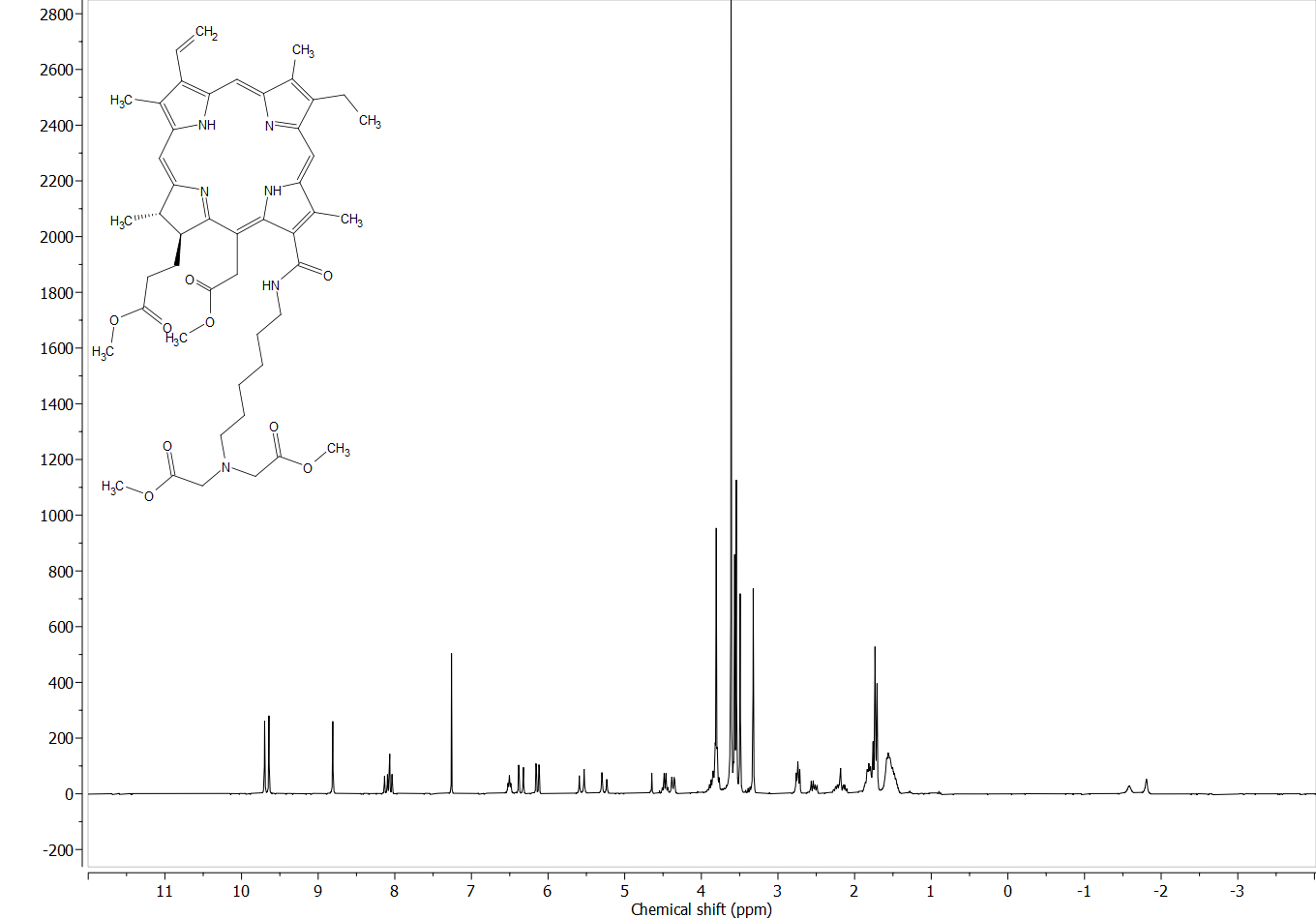


Figure S2: 1H NMR (CDCl3, 300 MHz) spectrum of compound **3**.

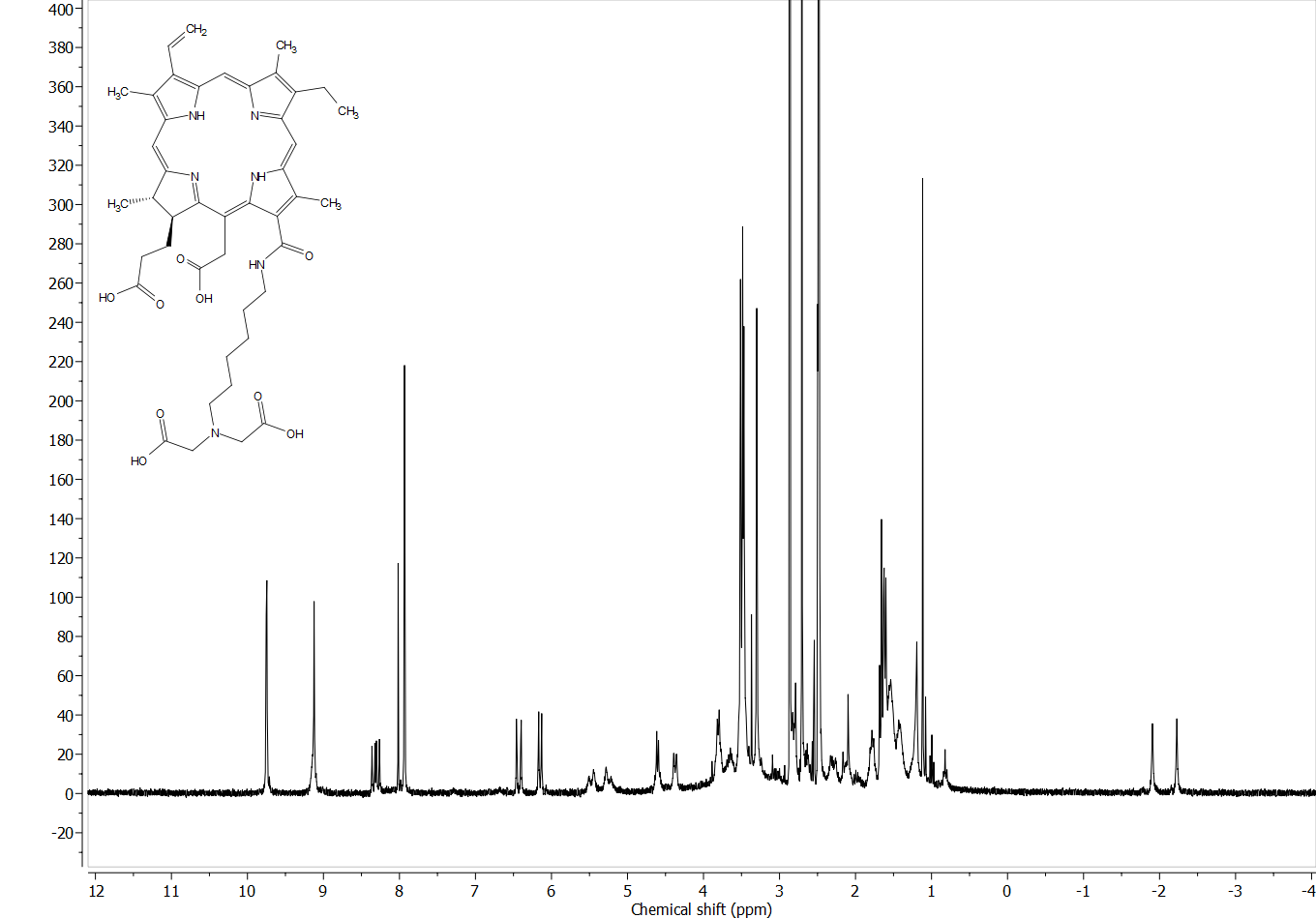


Figure S3: 1H NMR (DMSO-d6, 300 MHz) spectrum of compound **4**.

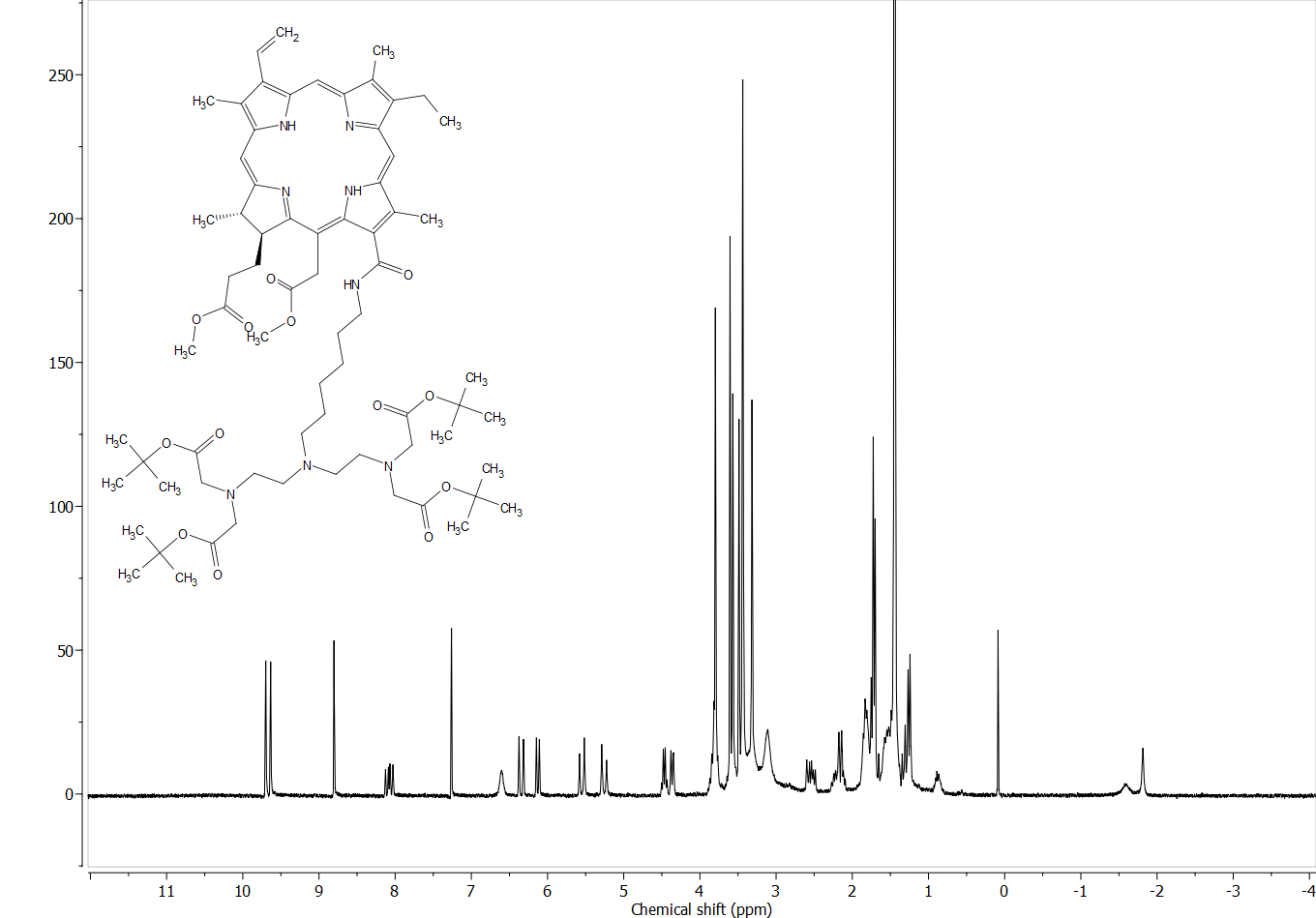


Figure S4: 1H NMR (CDCl3, 300 MHz) spectrum of compound **6**.

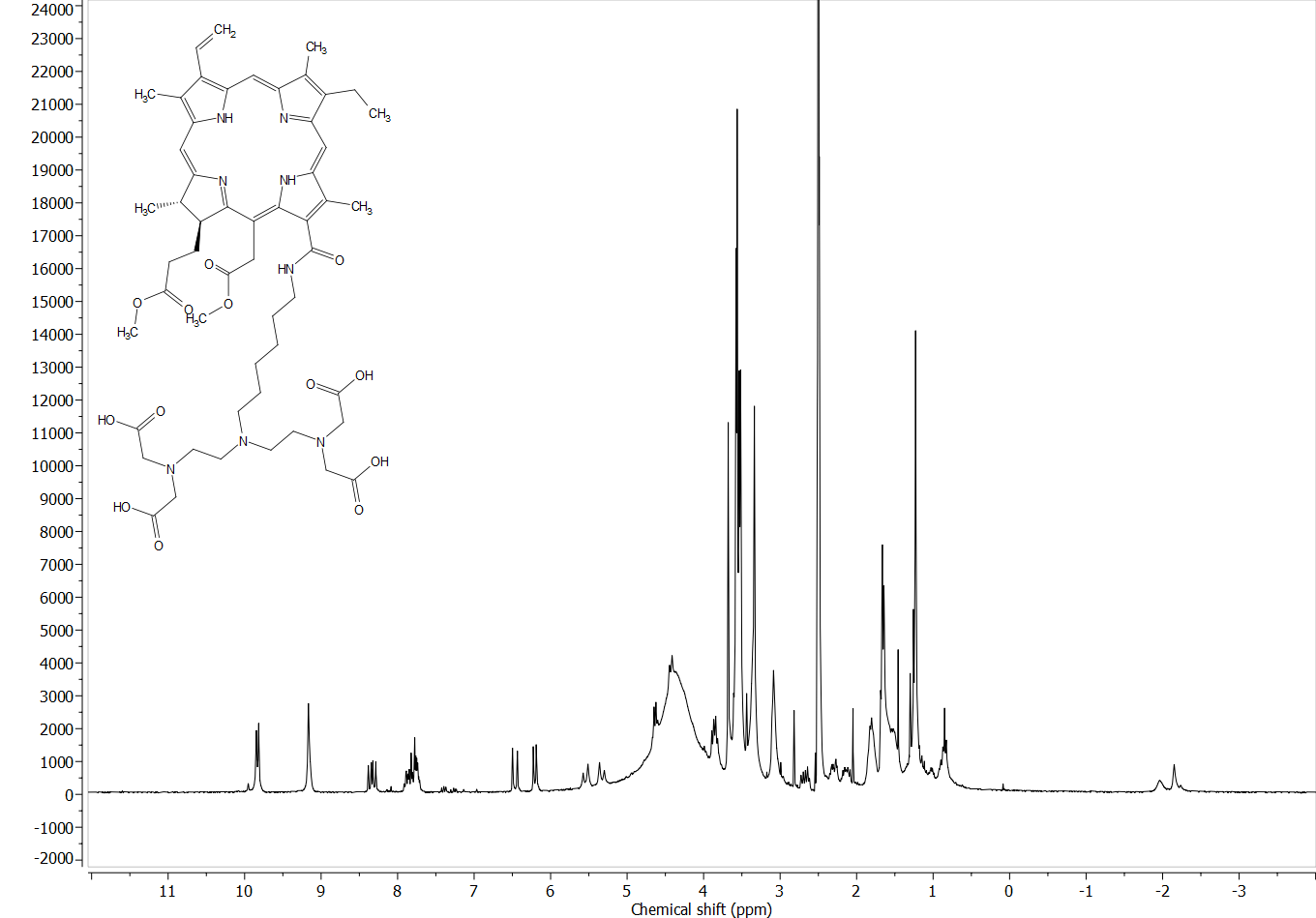
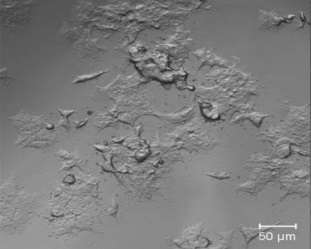
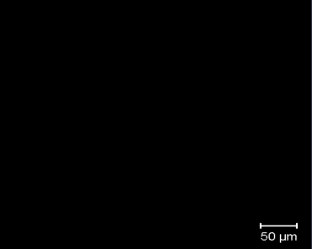
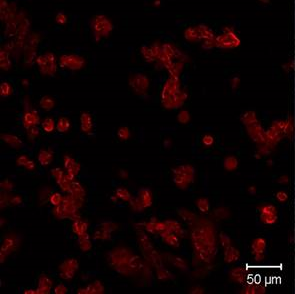
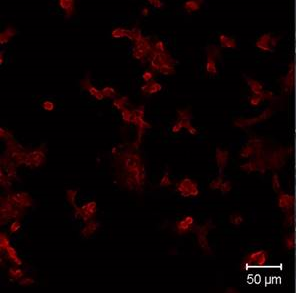
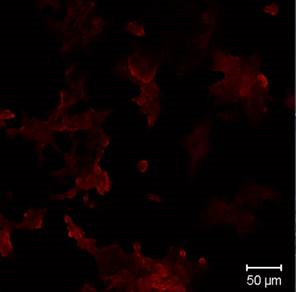
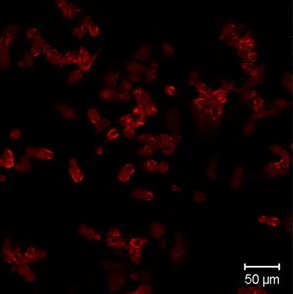
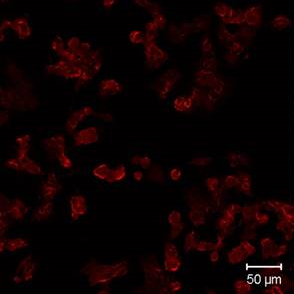
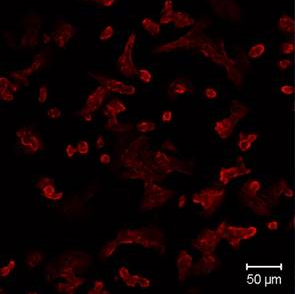
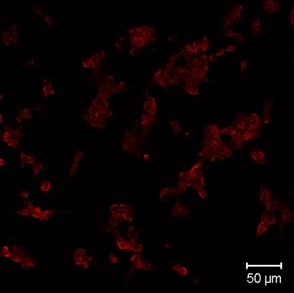
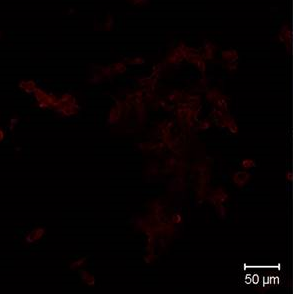
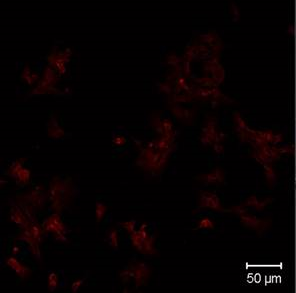
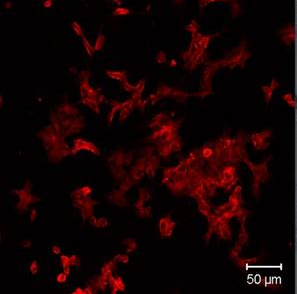
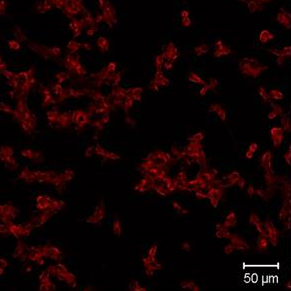
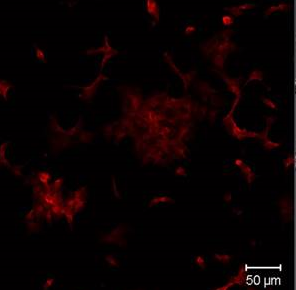


Figure S5: 1H NMR (DMSO-d6, 300 MHz) spectrum of compound **7**.

# Fluorescent micrographs 22Rv1 and MCF7 cells



**A**

**B**

**C**

**A**

**A**

**A**

**B**

**B**

**B**

**C**

**C**

**C**

**D**

**F**

control

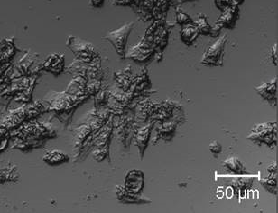
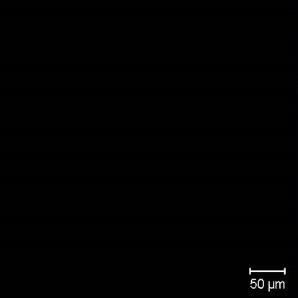
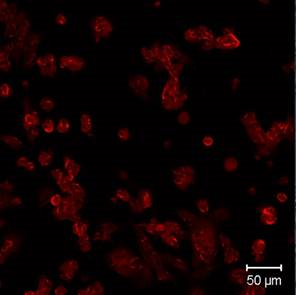
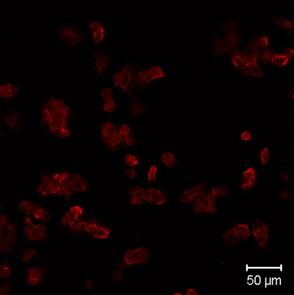
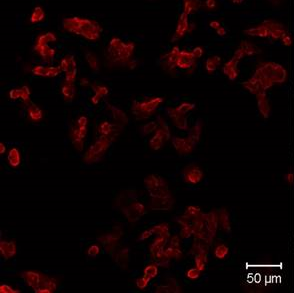
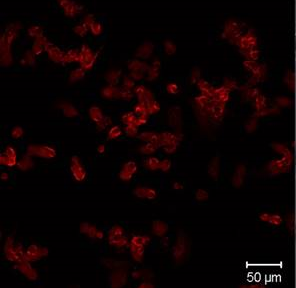
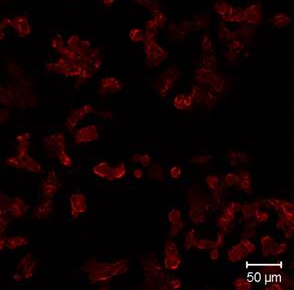
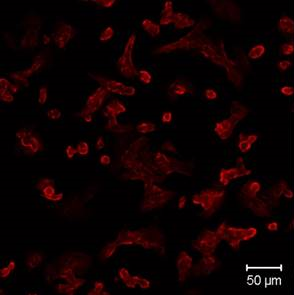
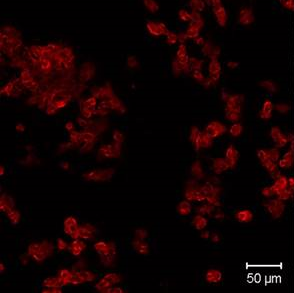
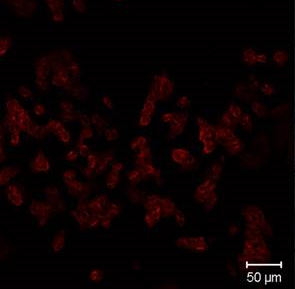
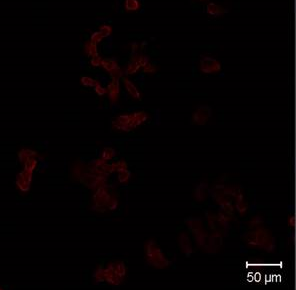
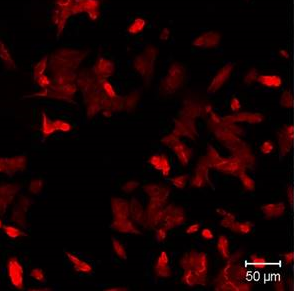
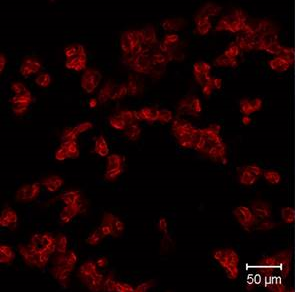
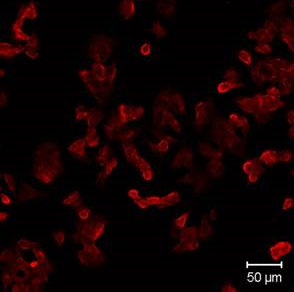
**8**

**7**

**5**

**4**

Figure S6: Fluorescent micrographs of 22Rv1 prostate carcinoma cells after incubation with compounds **4**, **5**, **7**, **8** after 15 minutes (A), 60 minutes (B) and 180 minutes (C), D – image of MCF7 cells in transmitted light, F – fluorescent micrograph MCF7 cells without exposure.



**A**

**A**

**A**

**A**

**B**

**B**

**B**

**B**

**C**

**C**

**C**

**C**

**D**

**F**

control

**8**

**7**

**5**

**4**

Figure S7: Fluorescent micrographs of MCF7 breast adenocarcinoma cells after incubation with compounds **4**, **5**, **7**, **8** after 15 minutes (A), 60 minutes (B) and 180 minutes (C), D – image of MCF7 cells in transmitted light, F – fluorescent micrograph MCF7 cells without exposure.