

Organic & Biomolecular Chemistry

Supporting Information

Caged Retinoids as Photoinducible Activators: Implications for Cell Differentiation and Neurite Outgrowth

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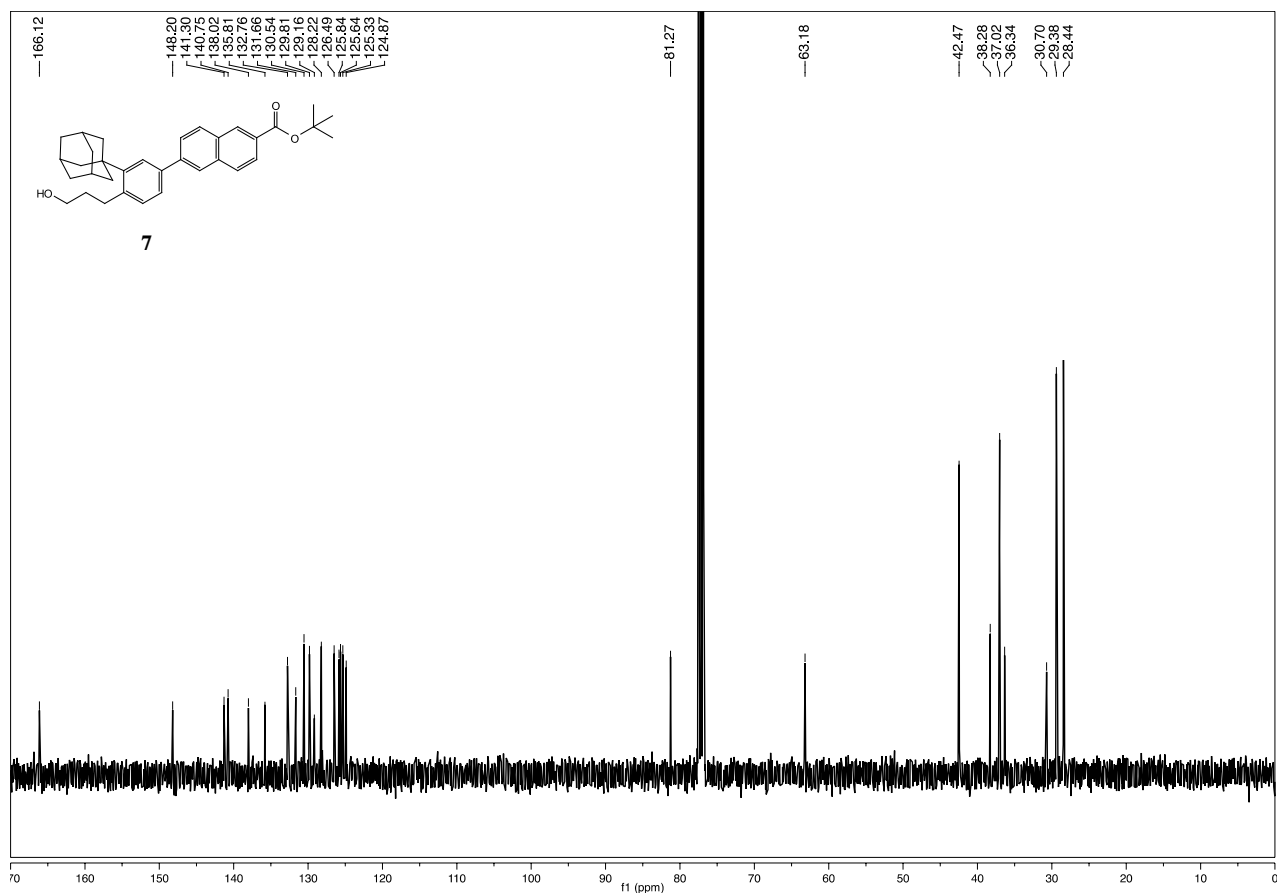
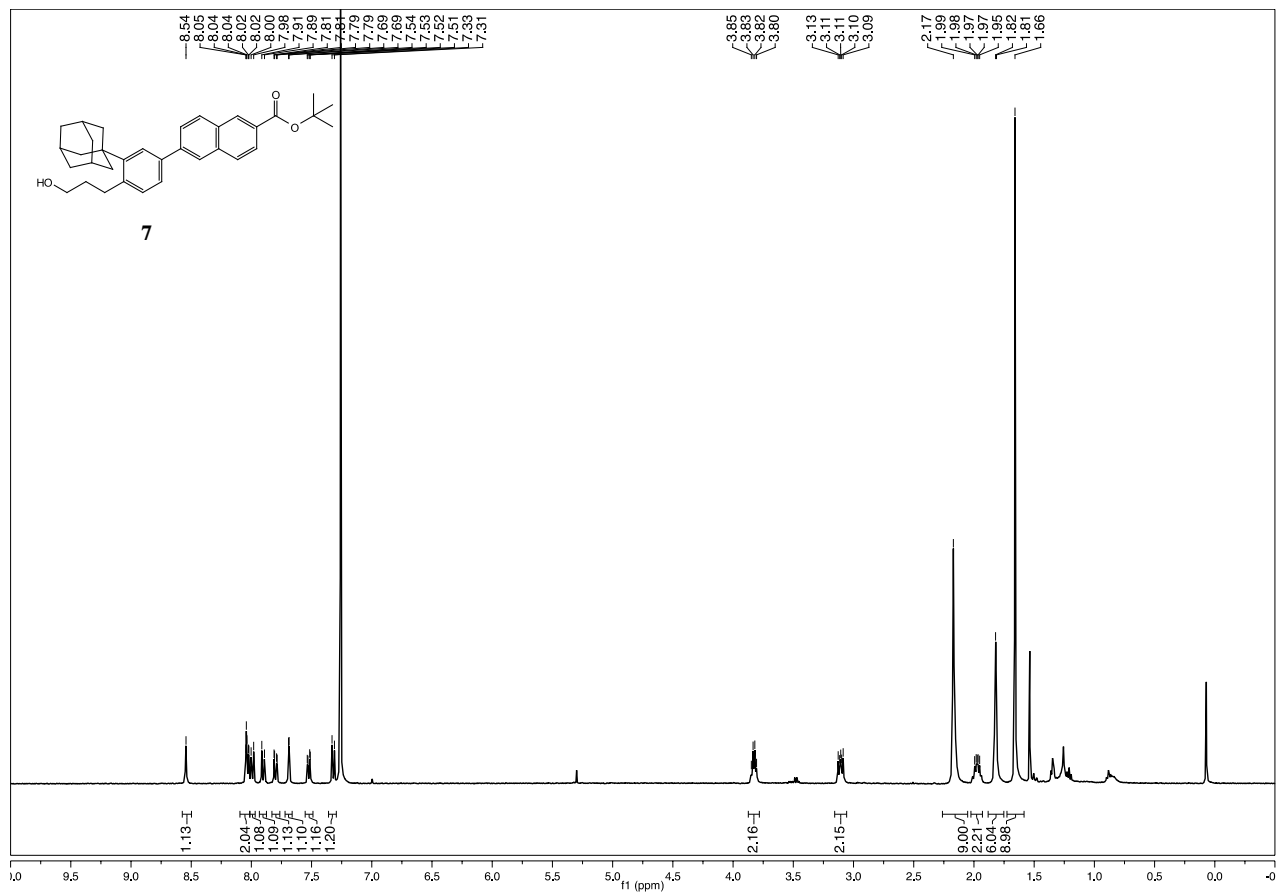
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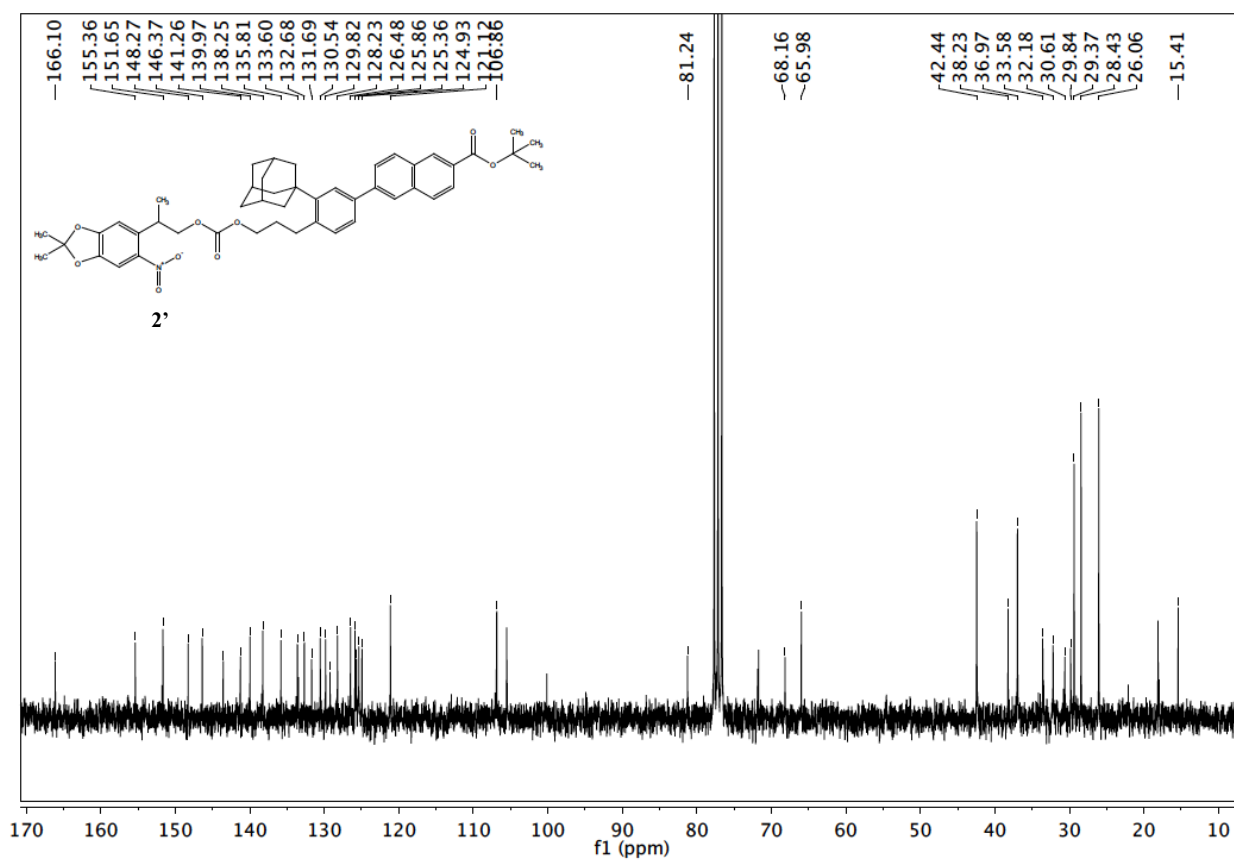
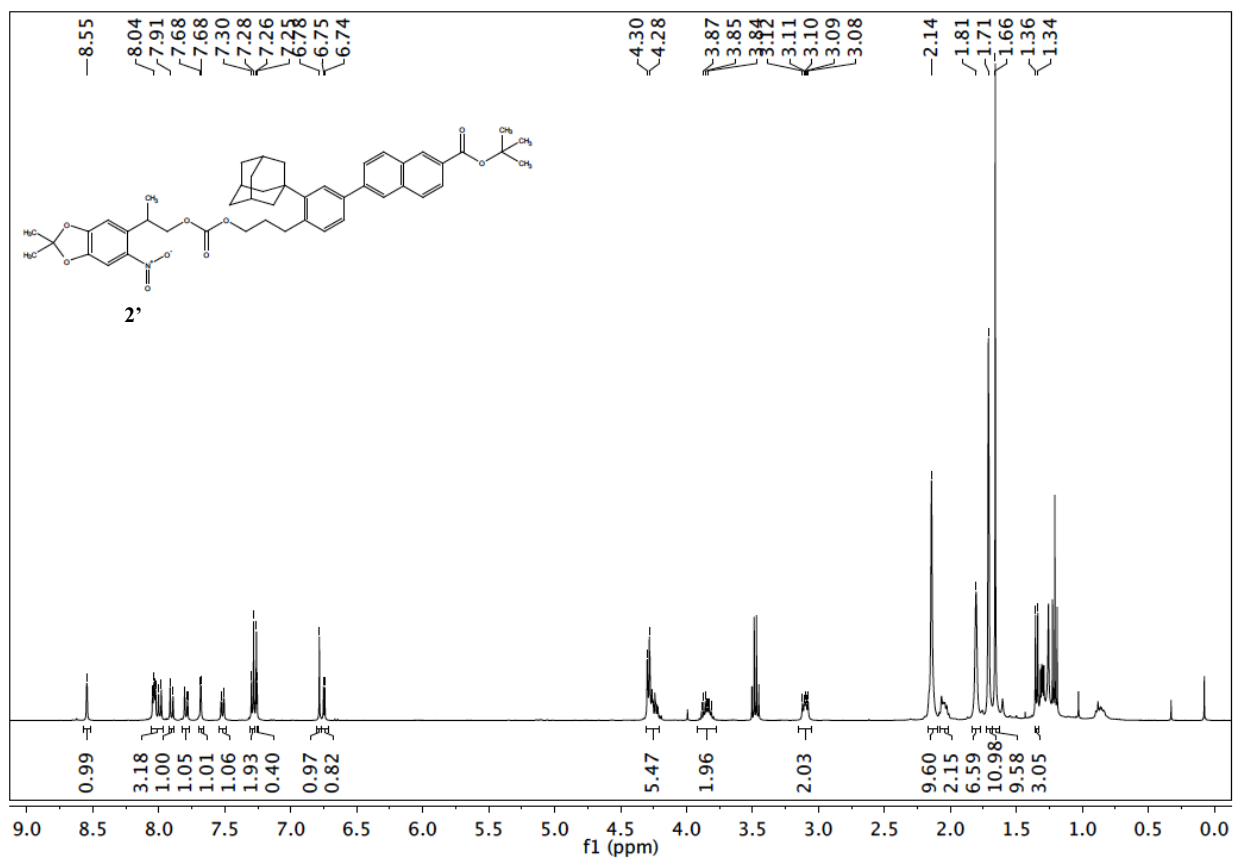
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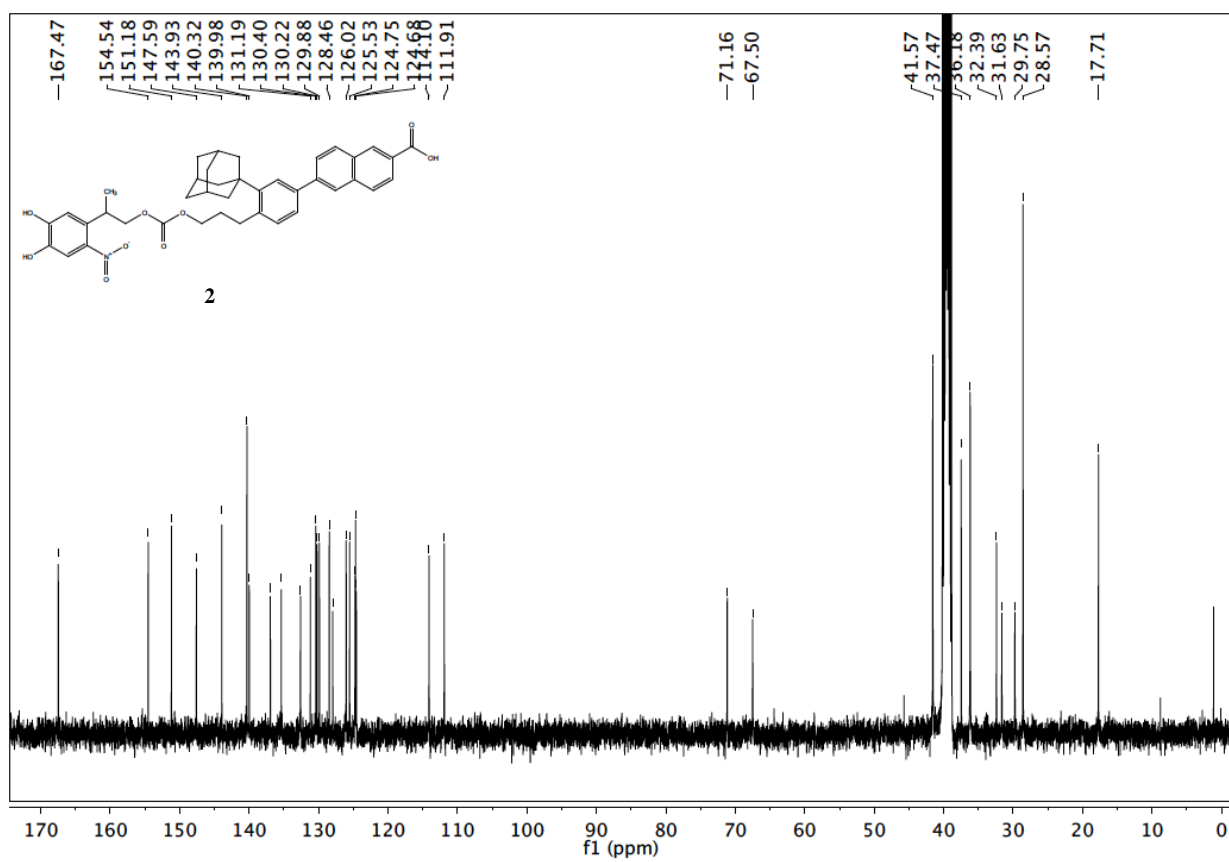
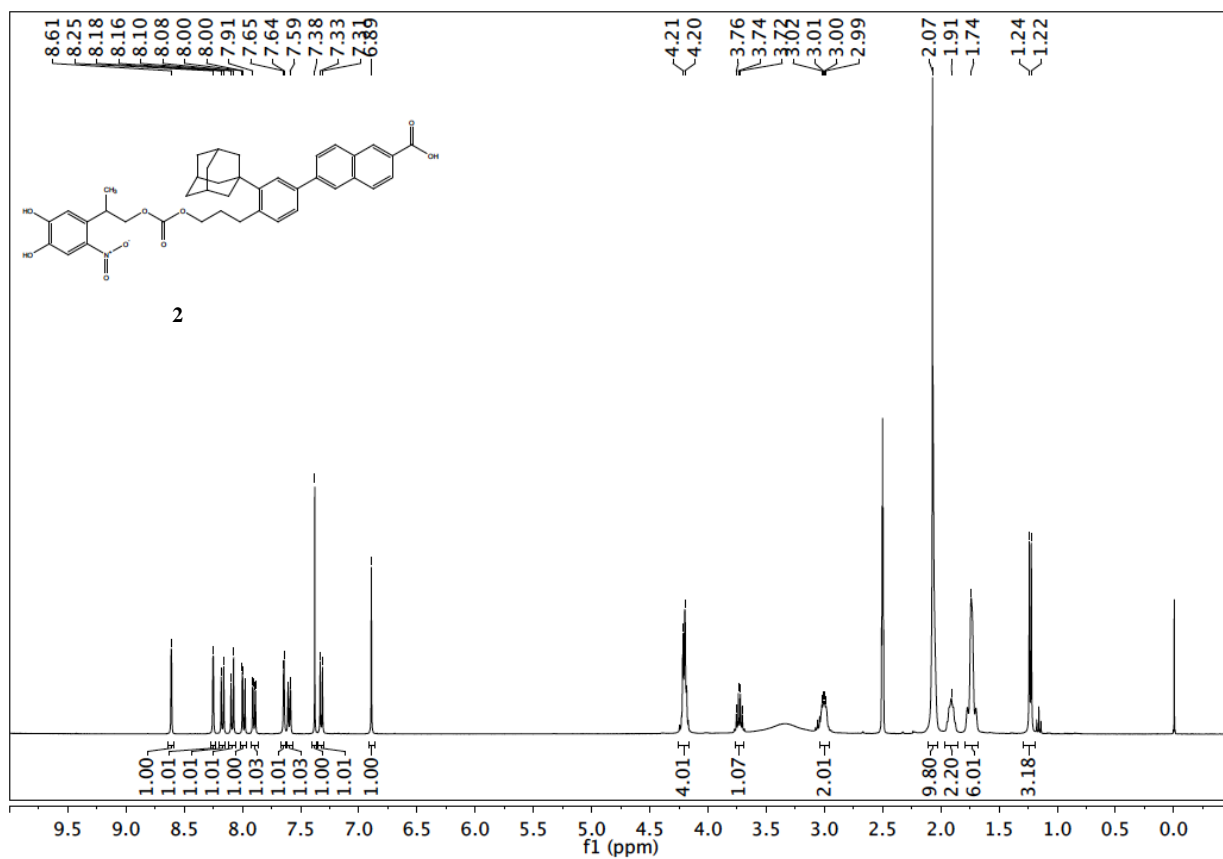
¹H and ¹³C NMR spectra
Representative Micrographs

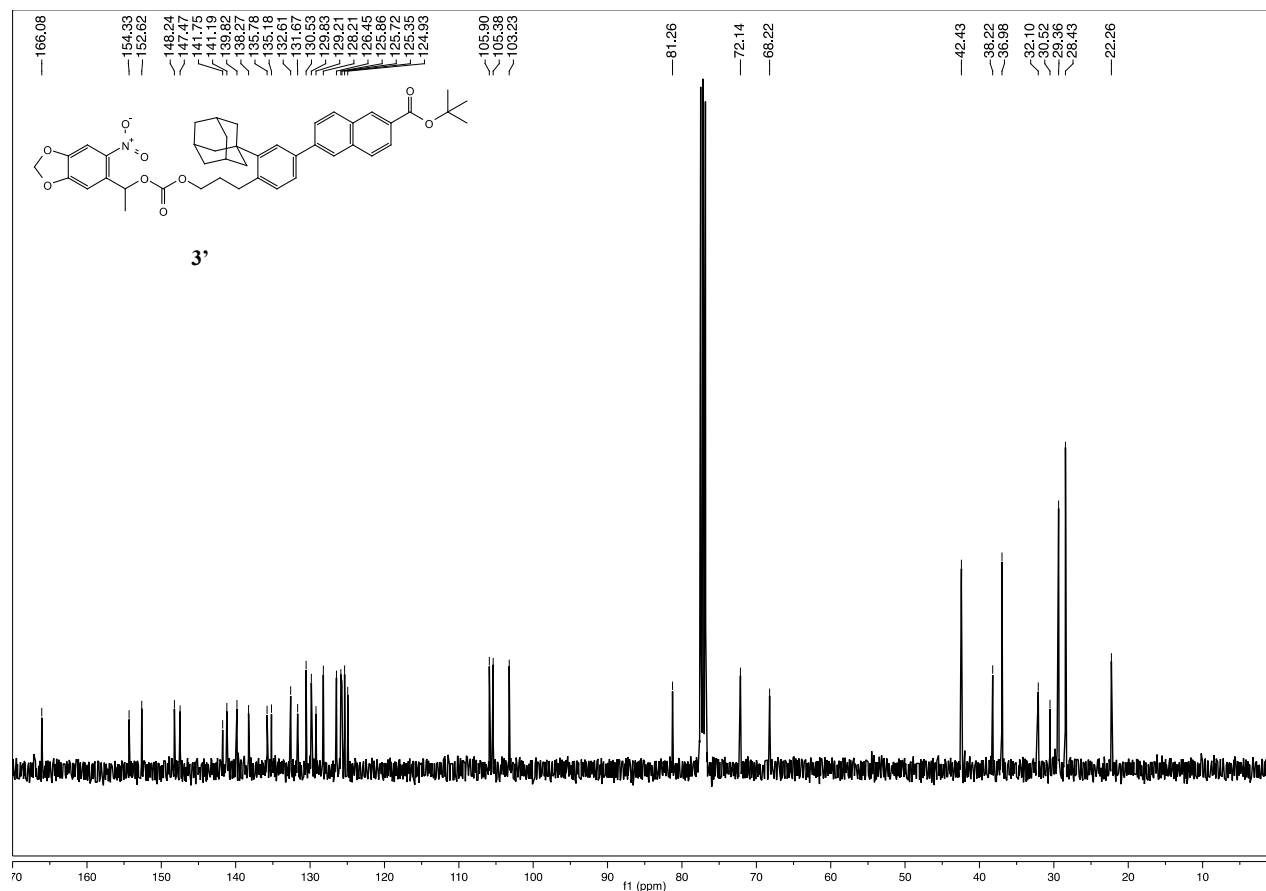
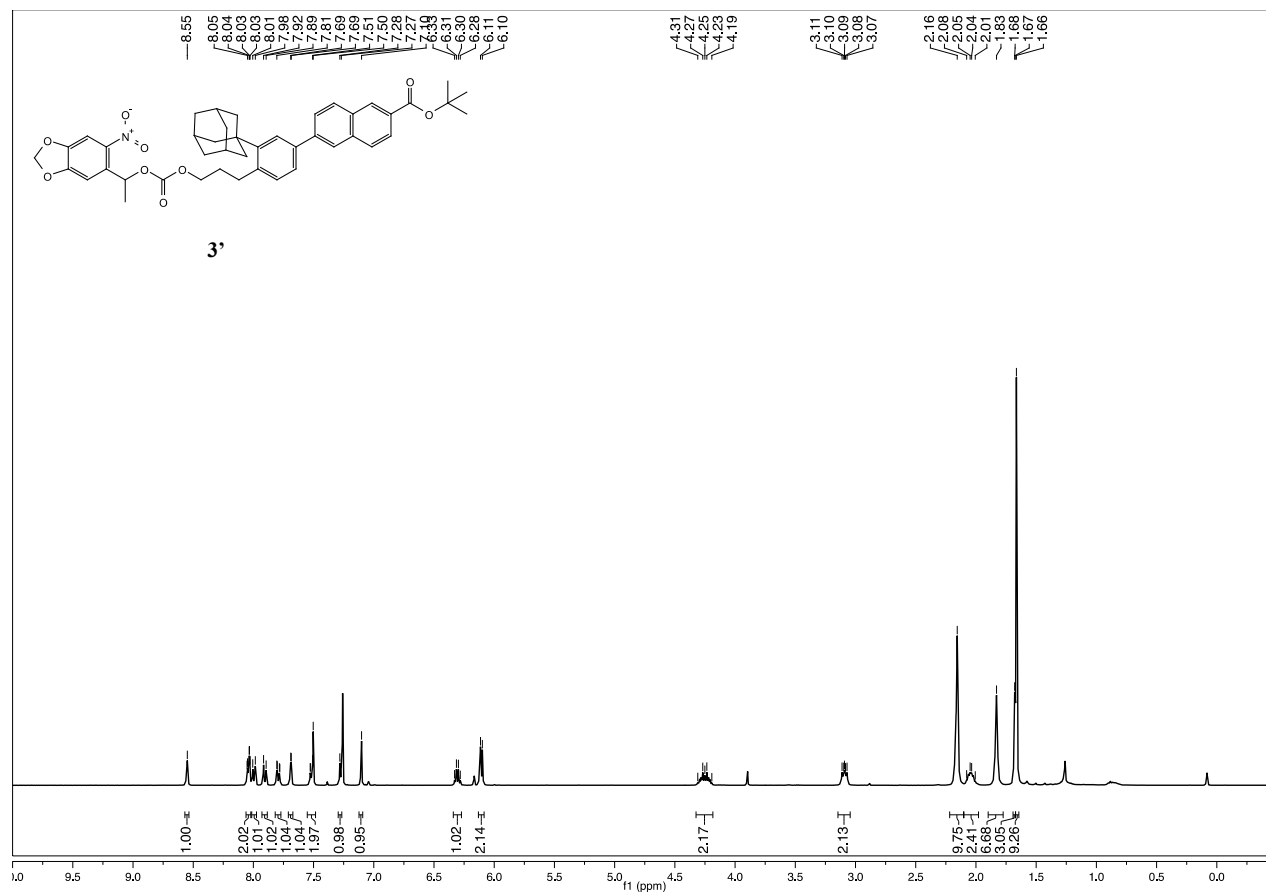
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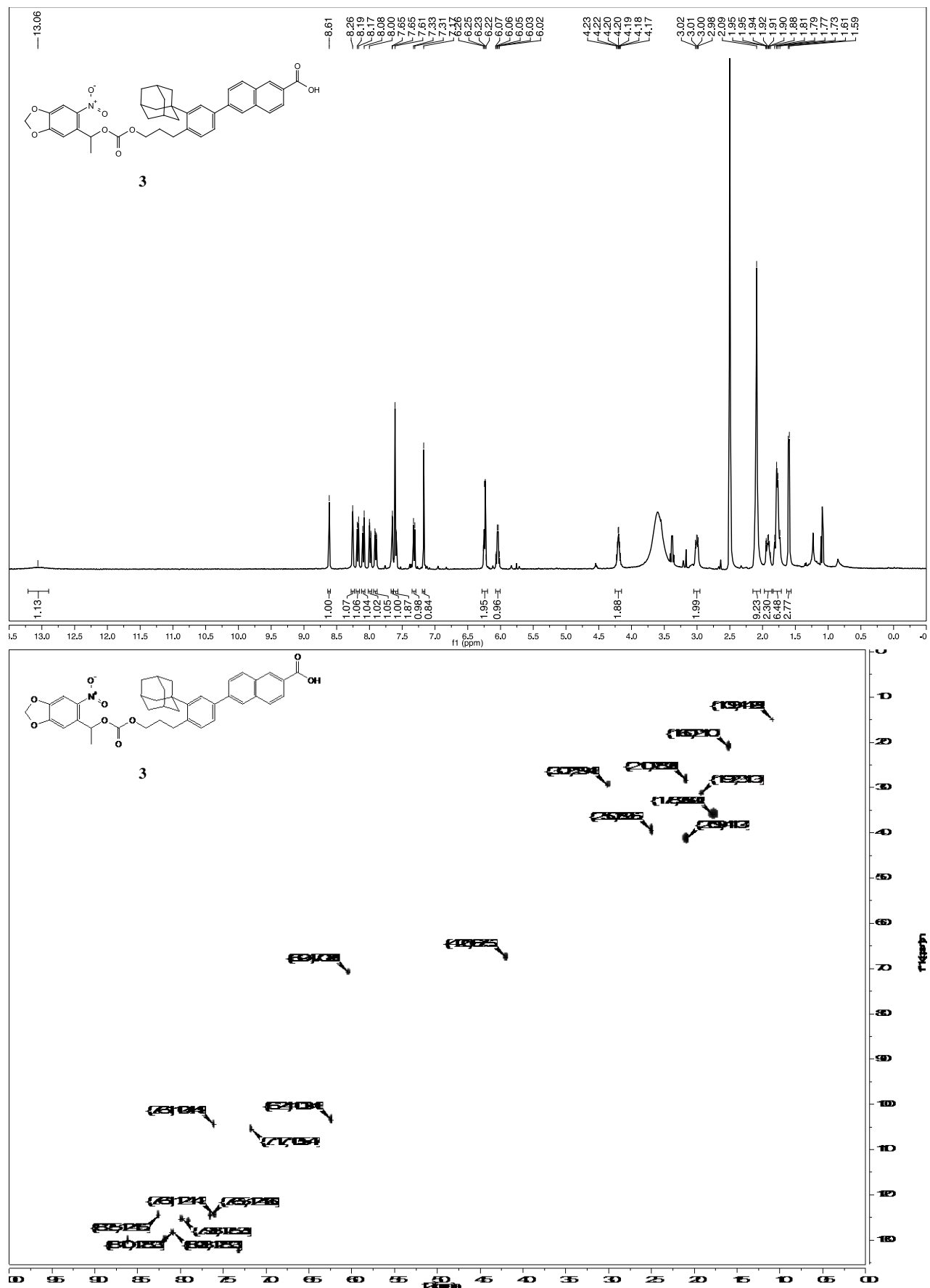
Selected ^1H and ^{13}C NMR-Spectra

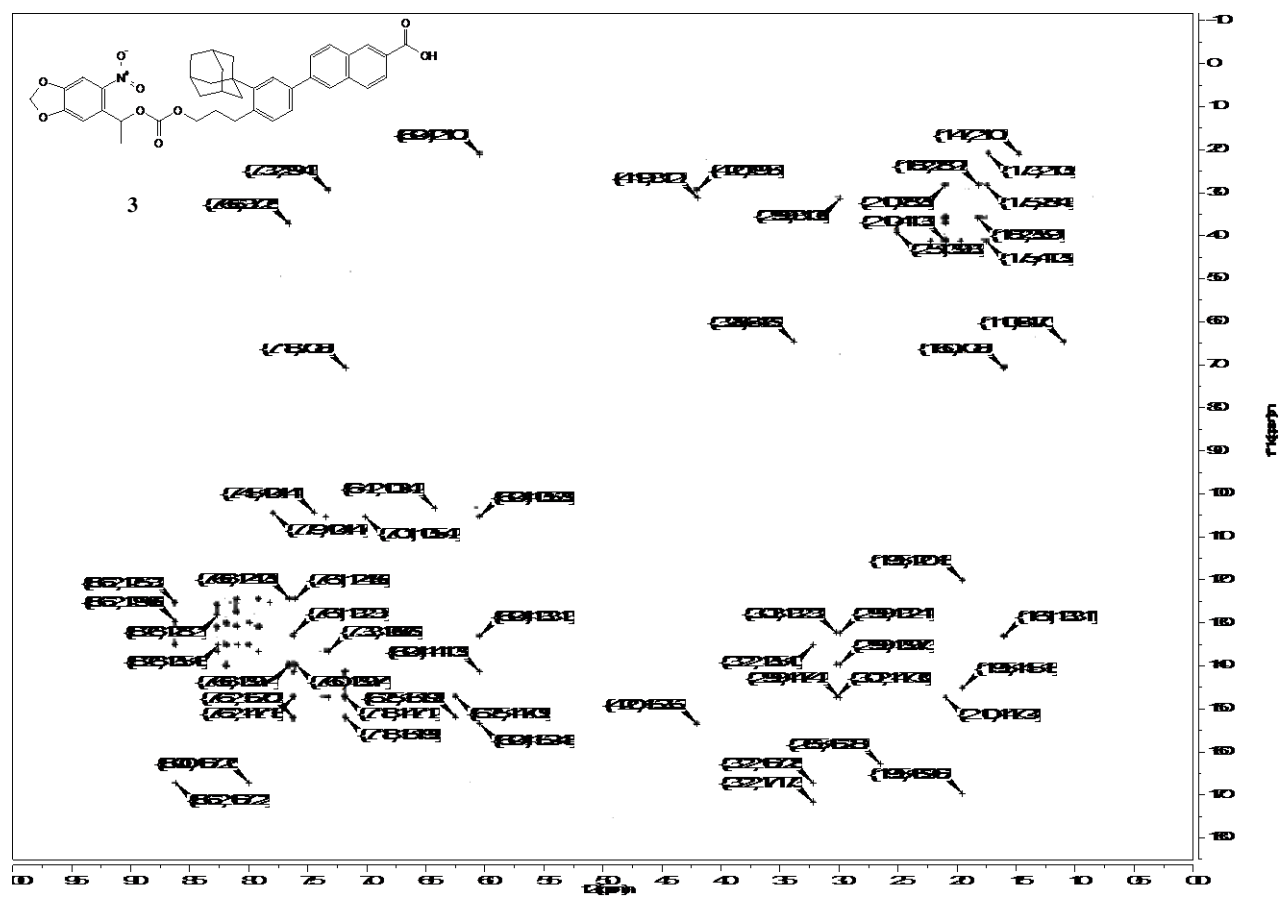


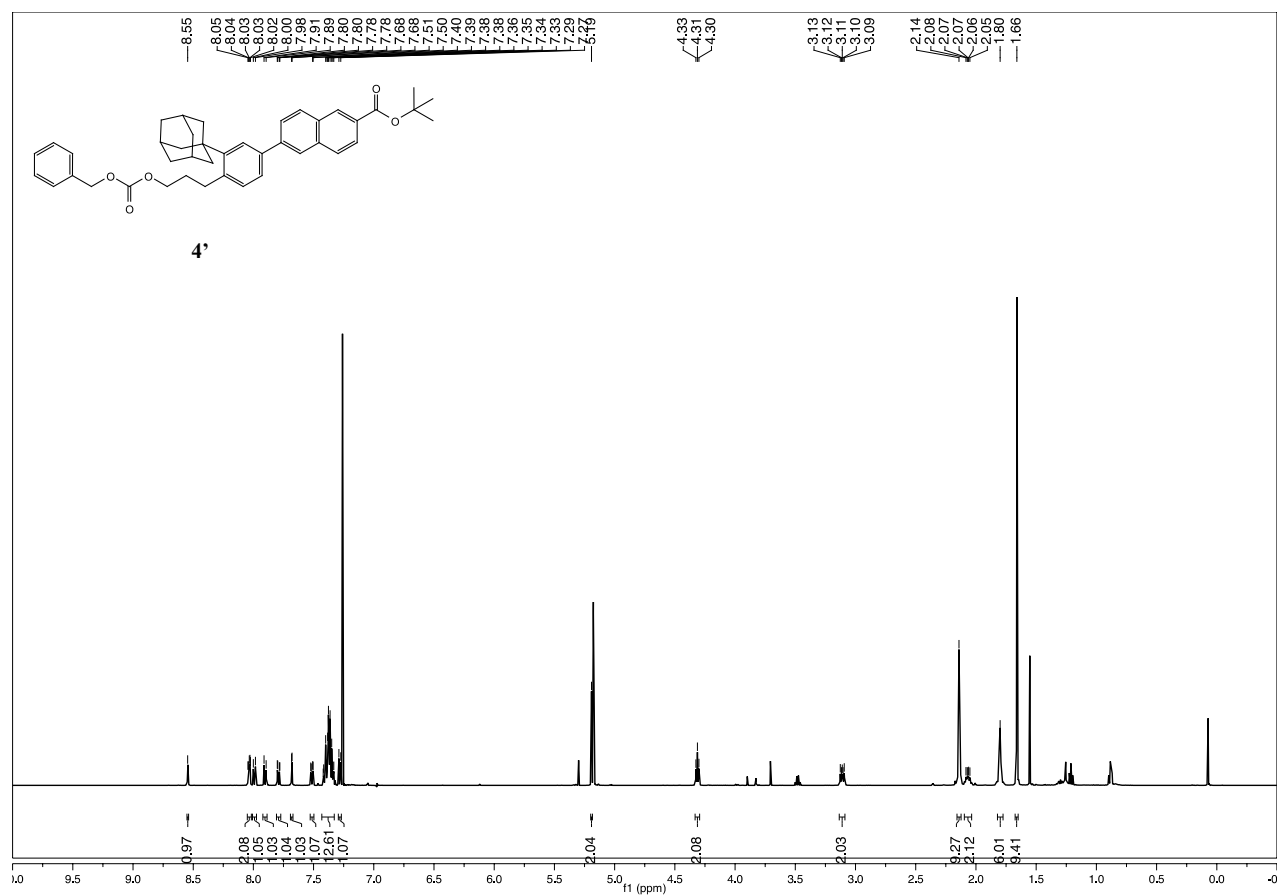


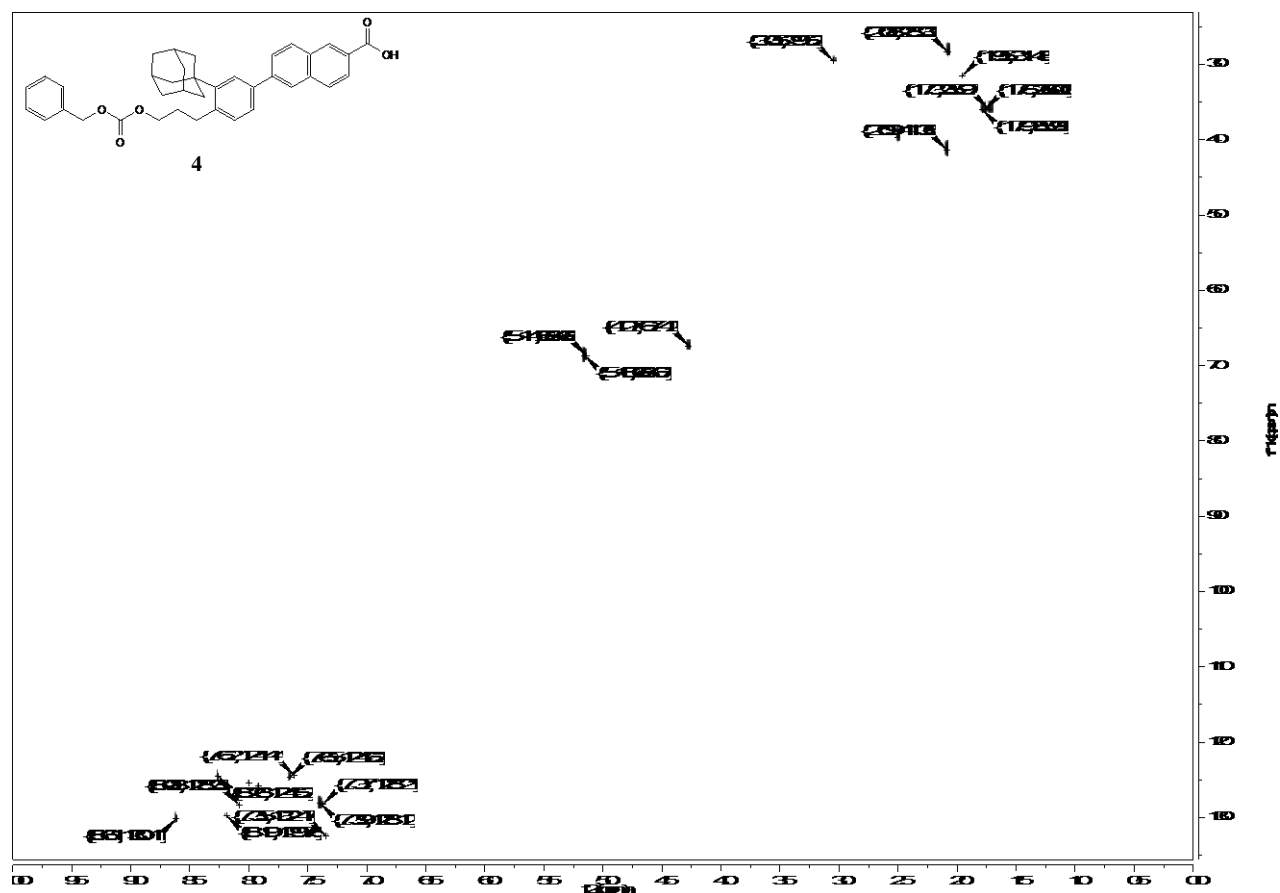
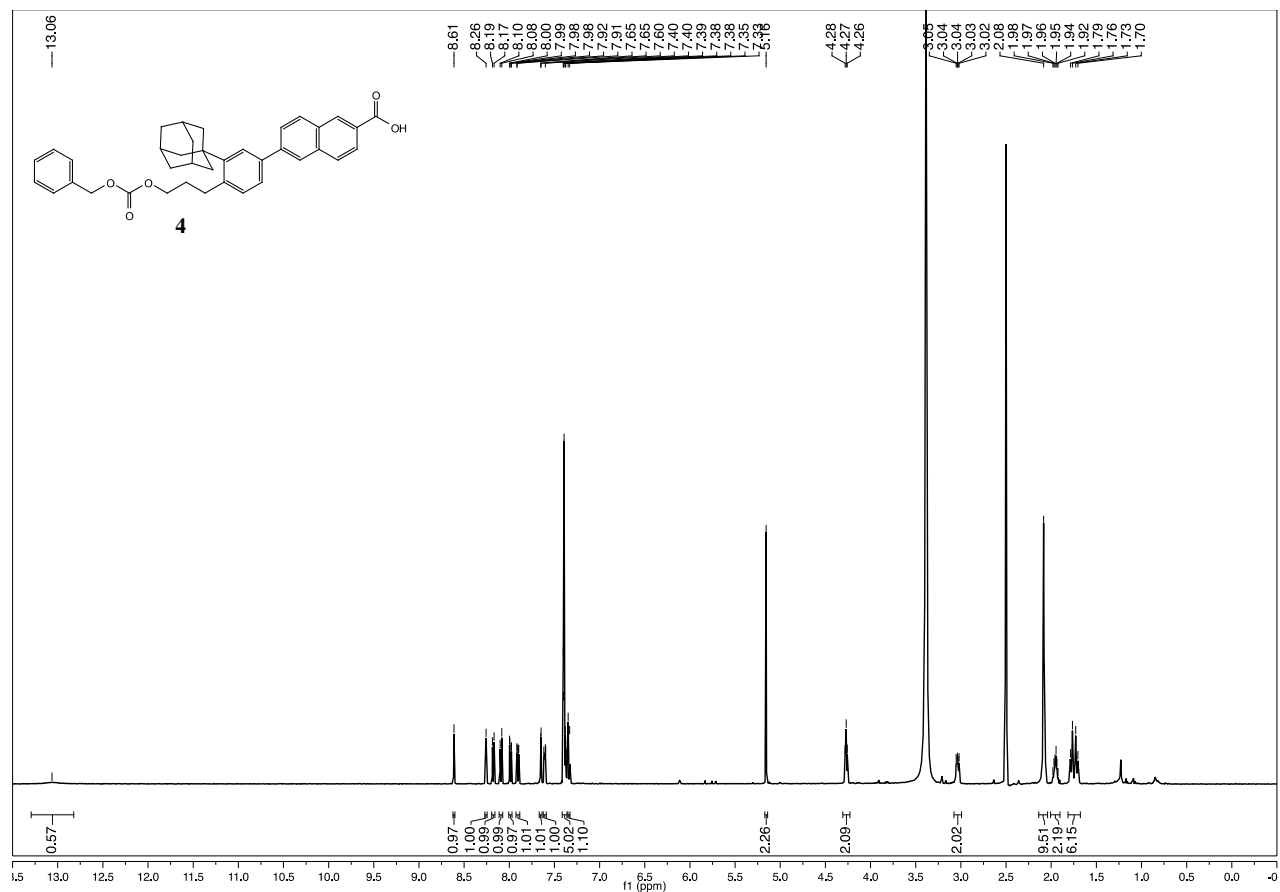


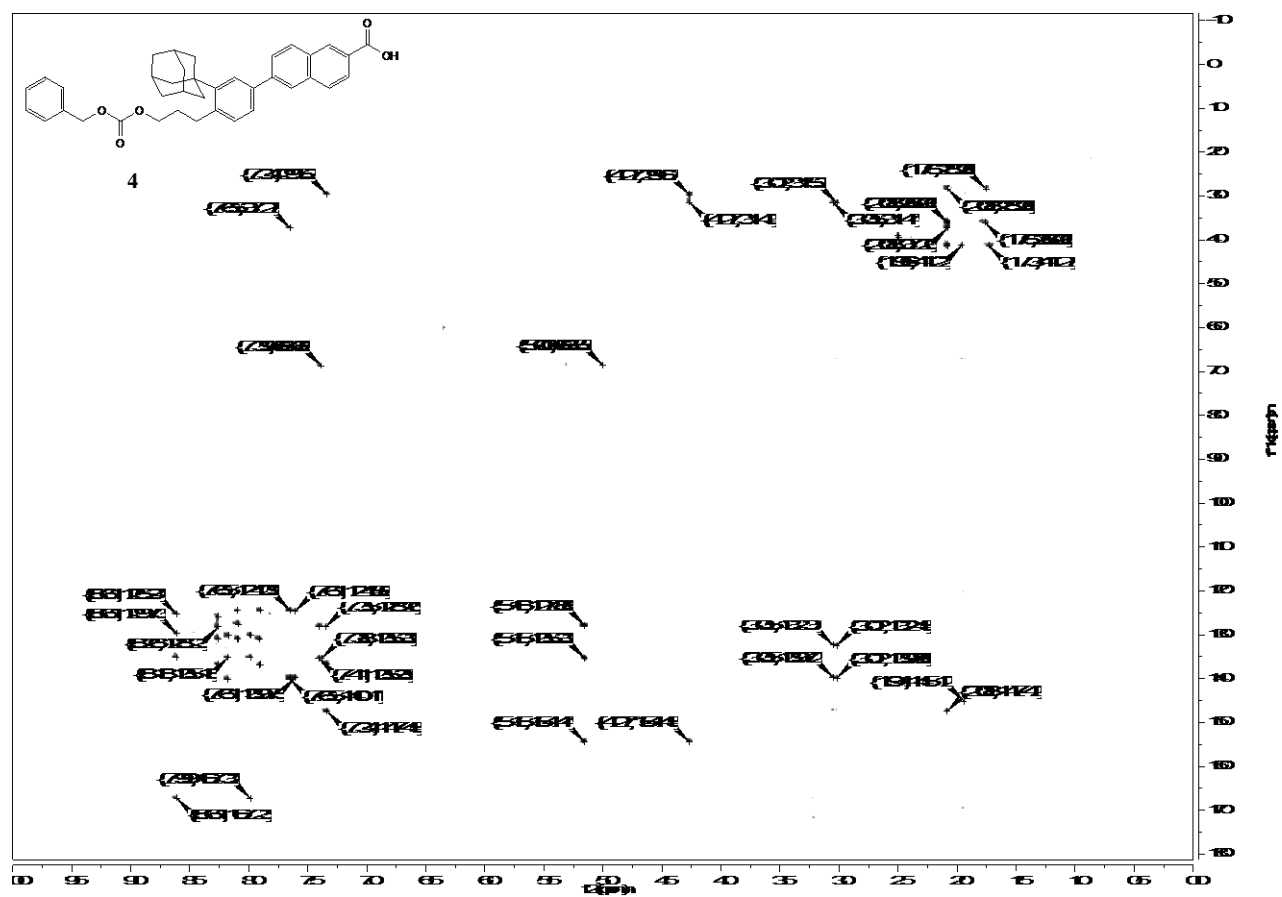


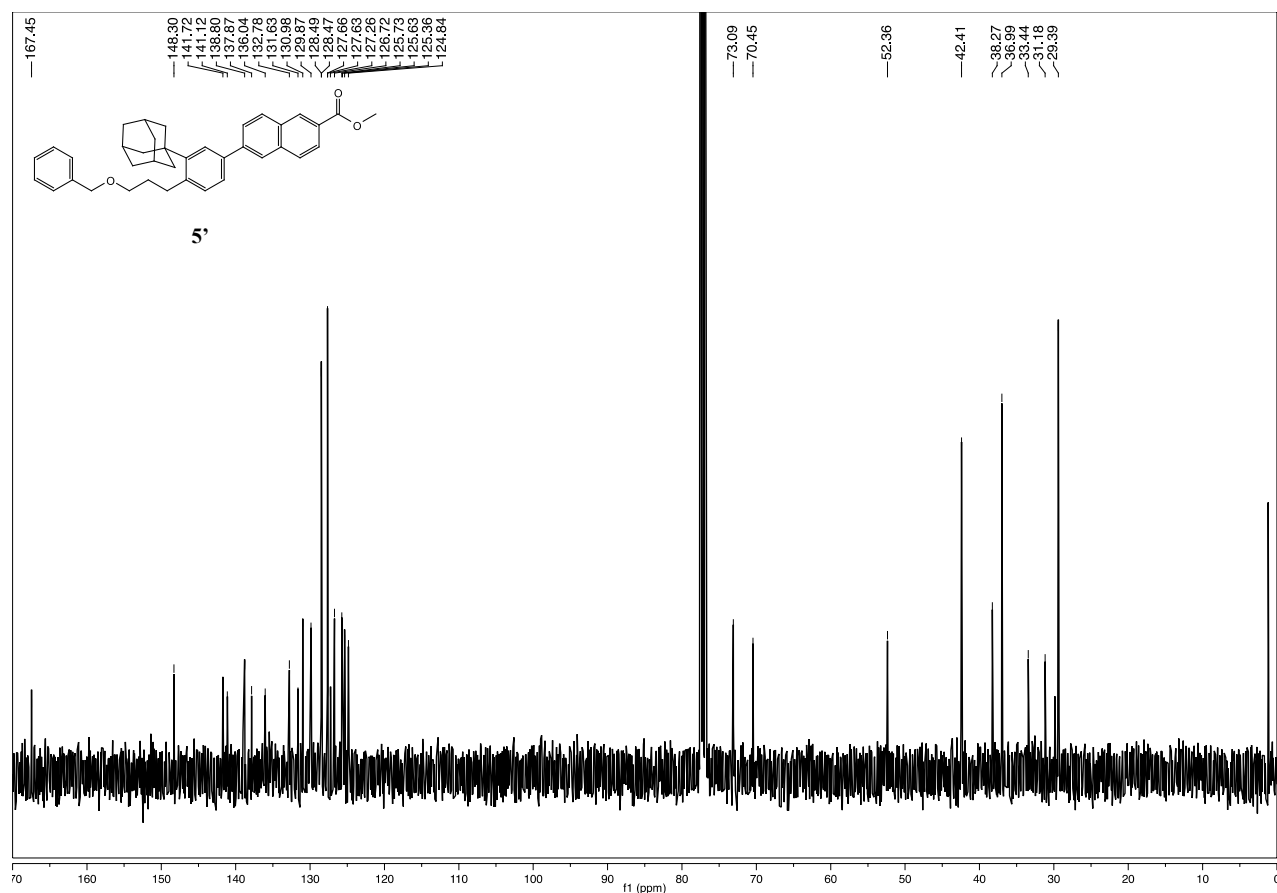
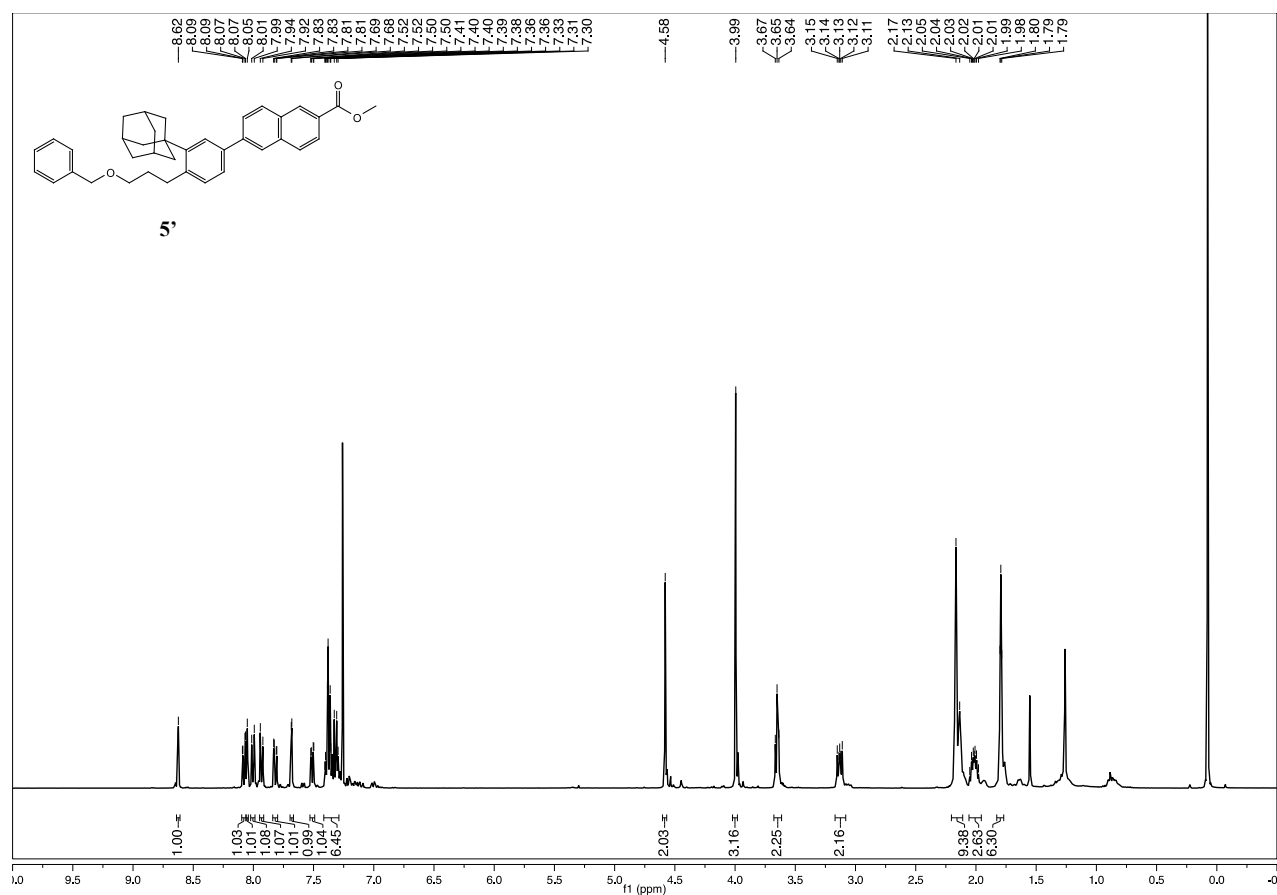


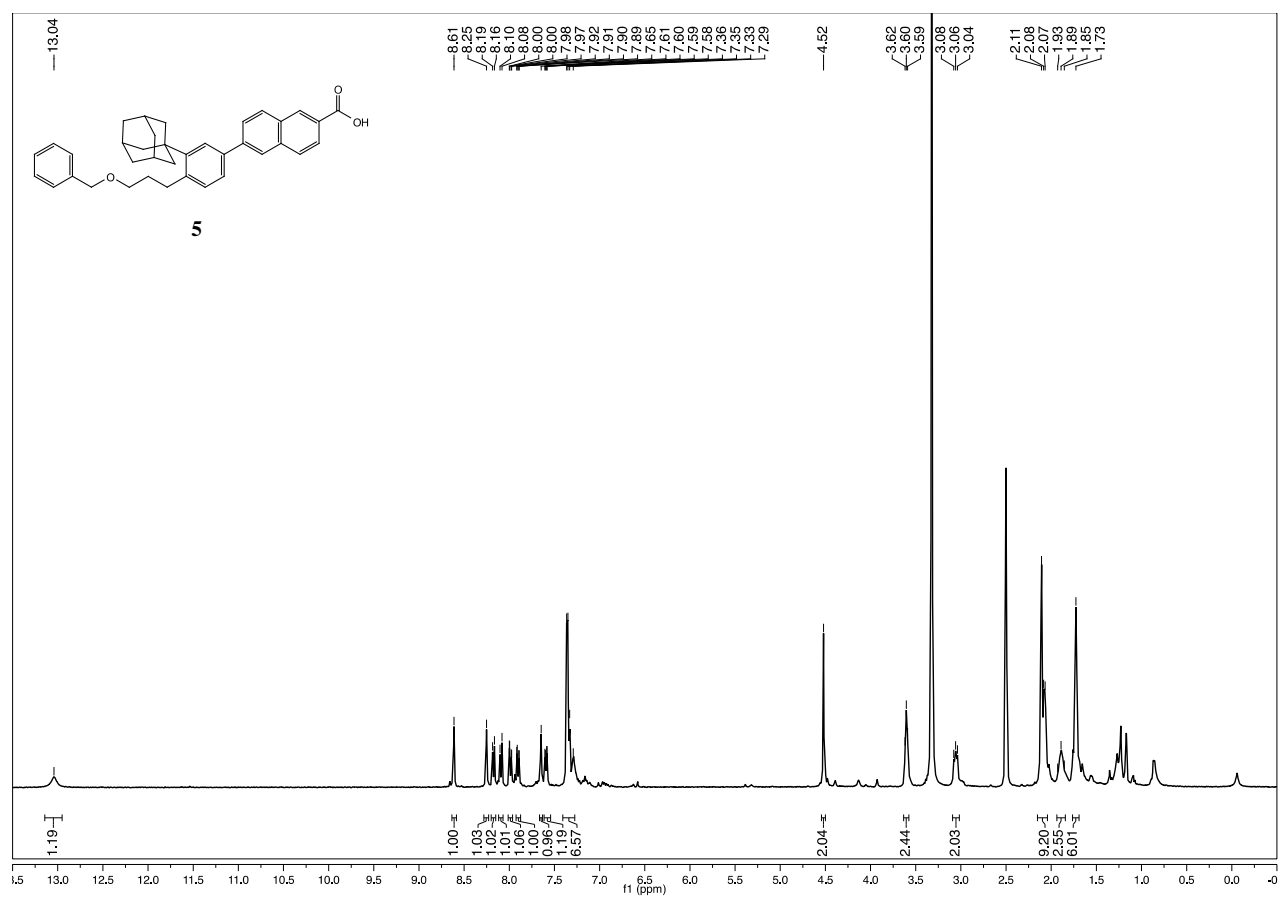








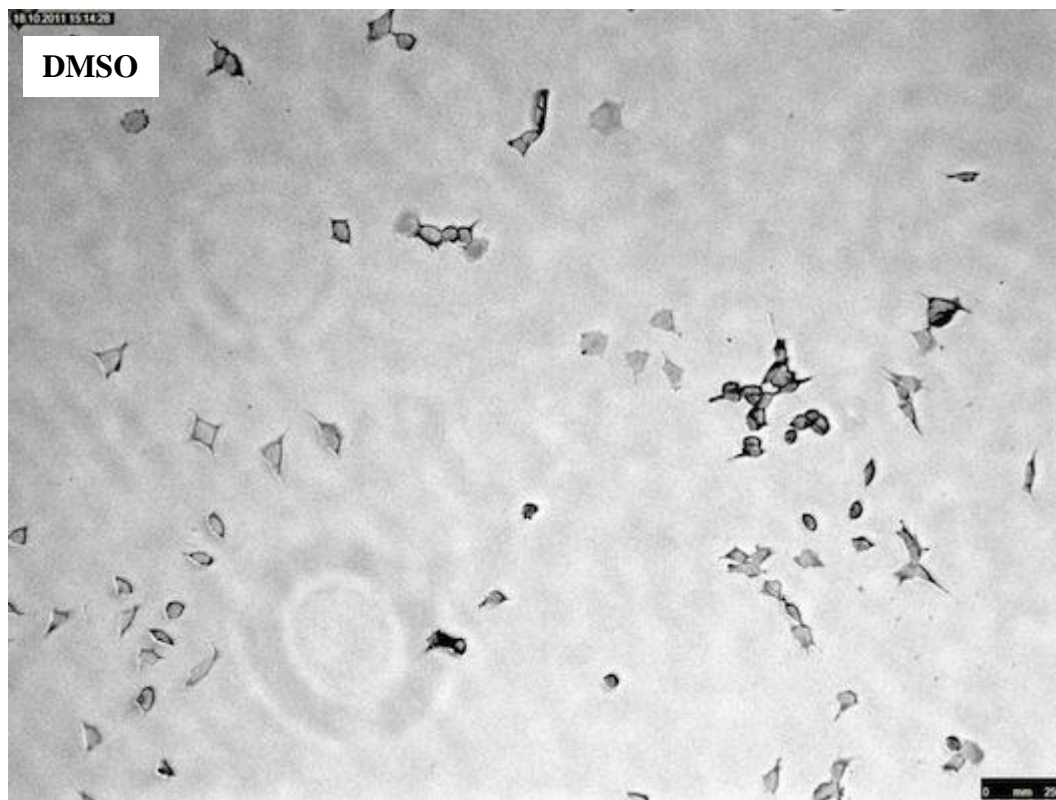




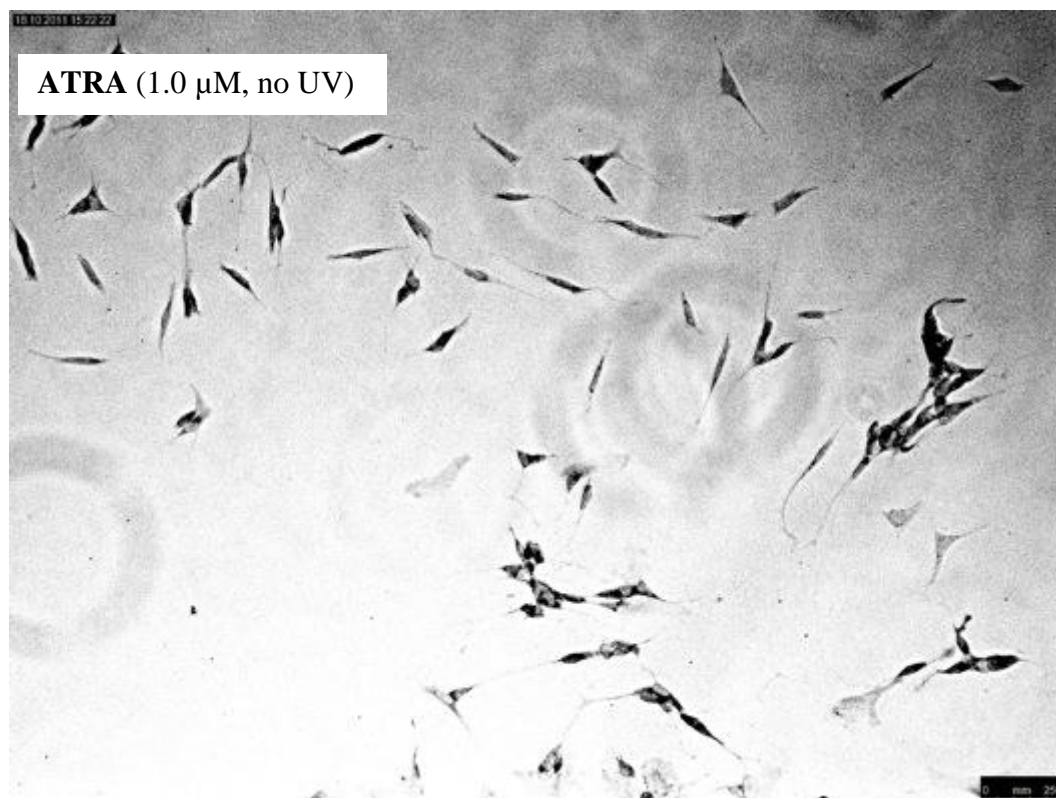
Representative micrographs for the different observed phenotypes:

Figure 3: Neurite outgrowth activity of DMSO (A), ATRA (1 μ M; B), retinoids **1** (1 μ M; C and 0.1 μ M; D), **4** (1 μ M; E) and **5** (1 μ M; F) in human SH-SY5Y cells with MEM as cell medium.

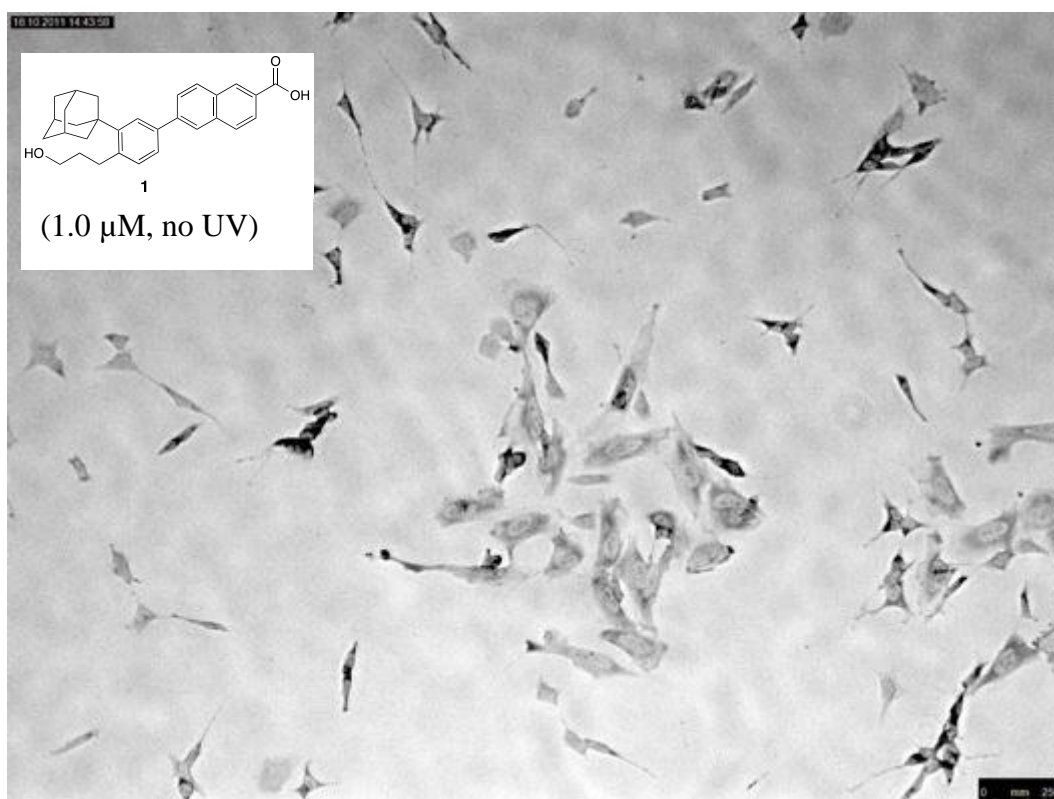
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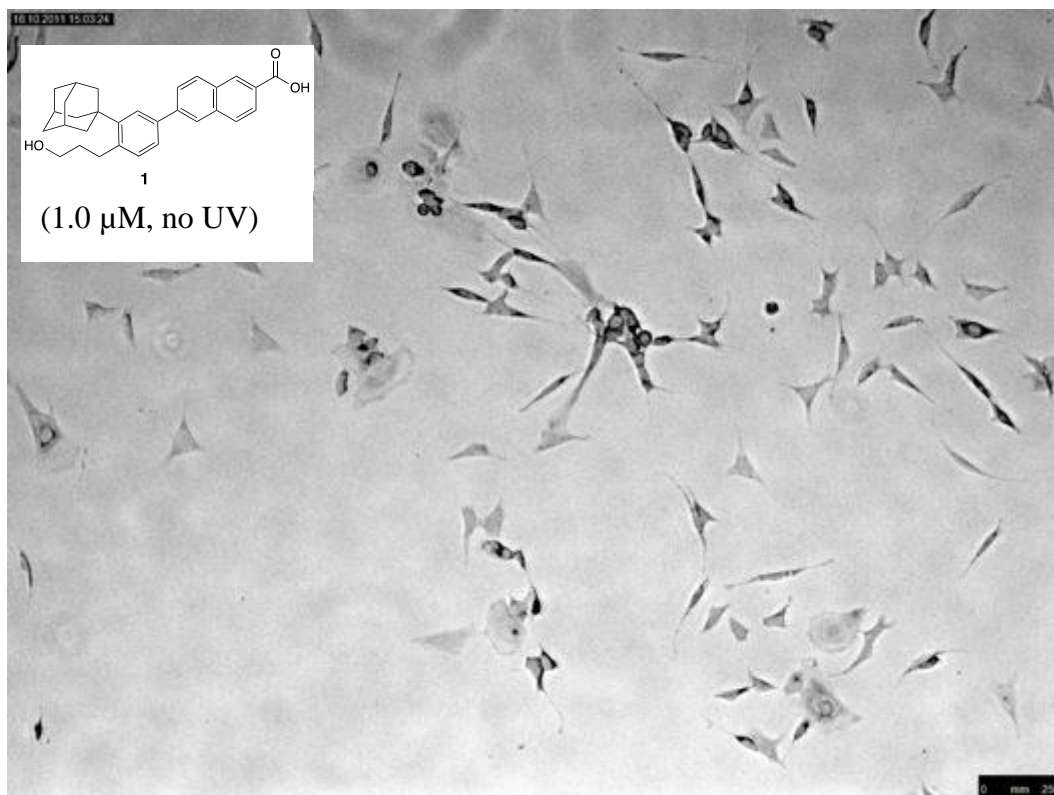
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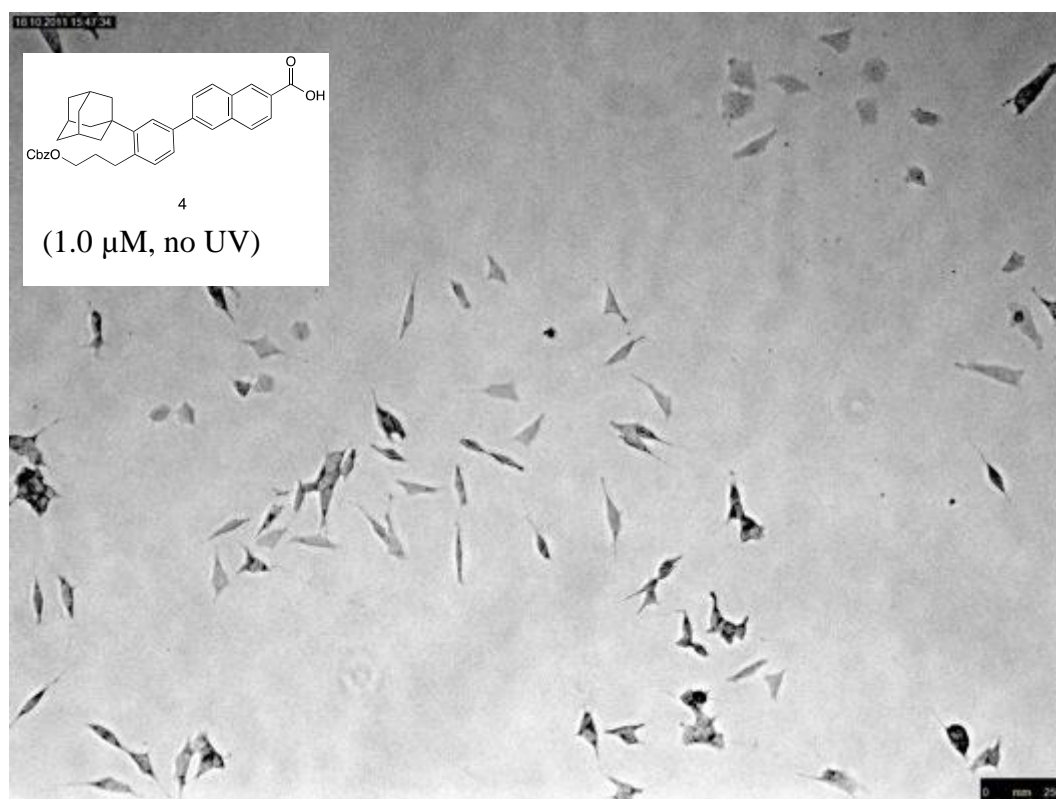
C



D



E



F

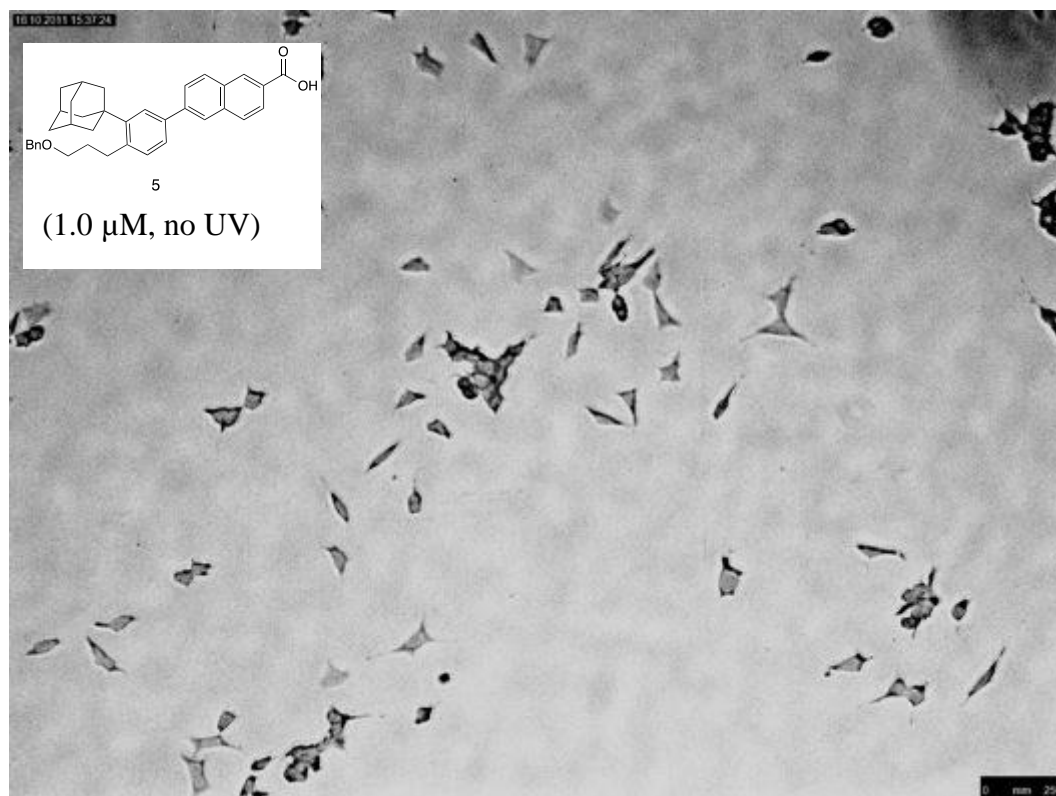
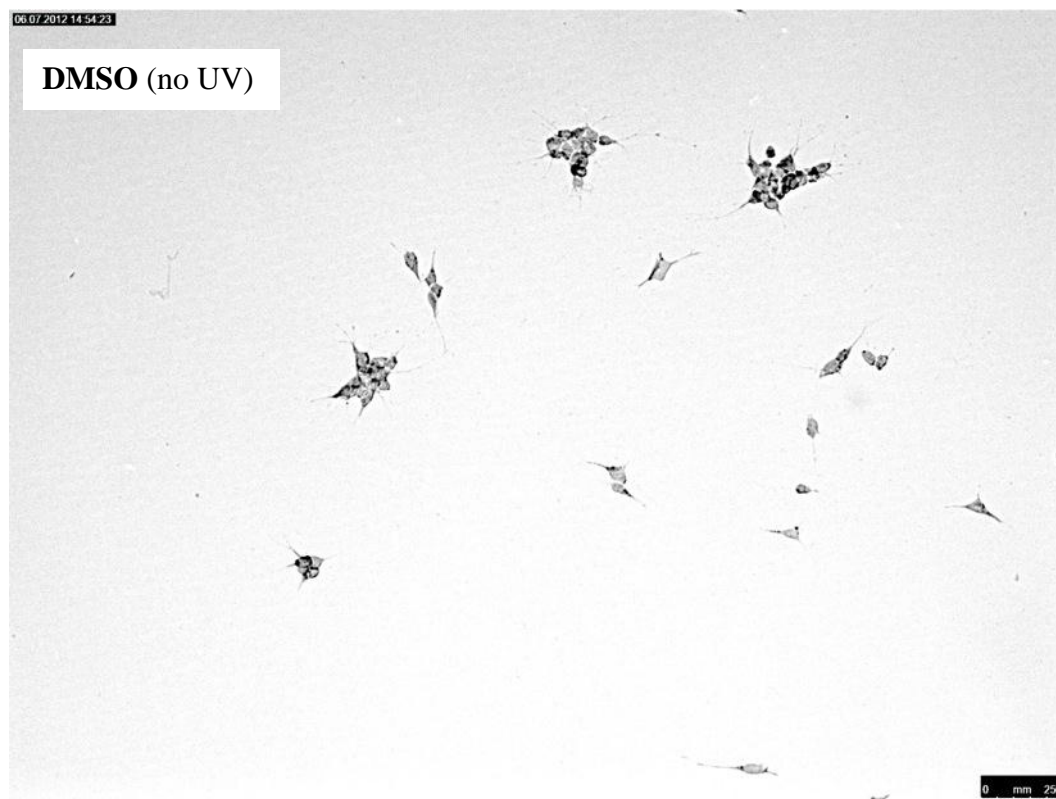
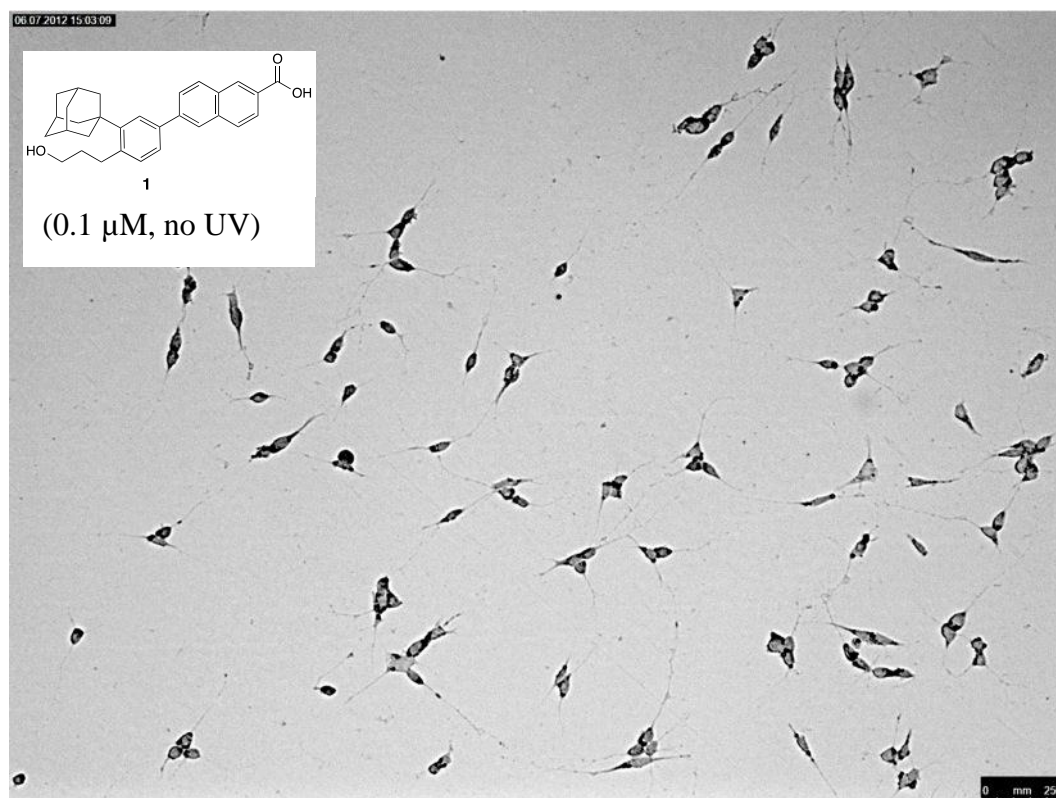


Figure 3A: Neurite outgrowth activity of DMSO control without UV irradiation: (no UV, **A**), retinoid **1** (0.1 μ M, no UV, **B**), caged retinoid **3** (1 μ M, no UV, **C**) and caged retinoid **3** (0.1 μ M, no UV, **D**) in human SH-SY5Y cells with MEM as cell medium.

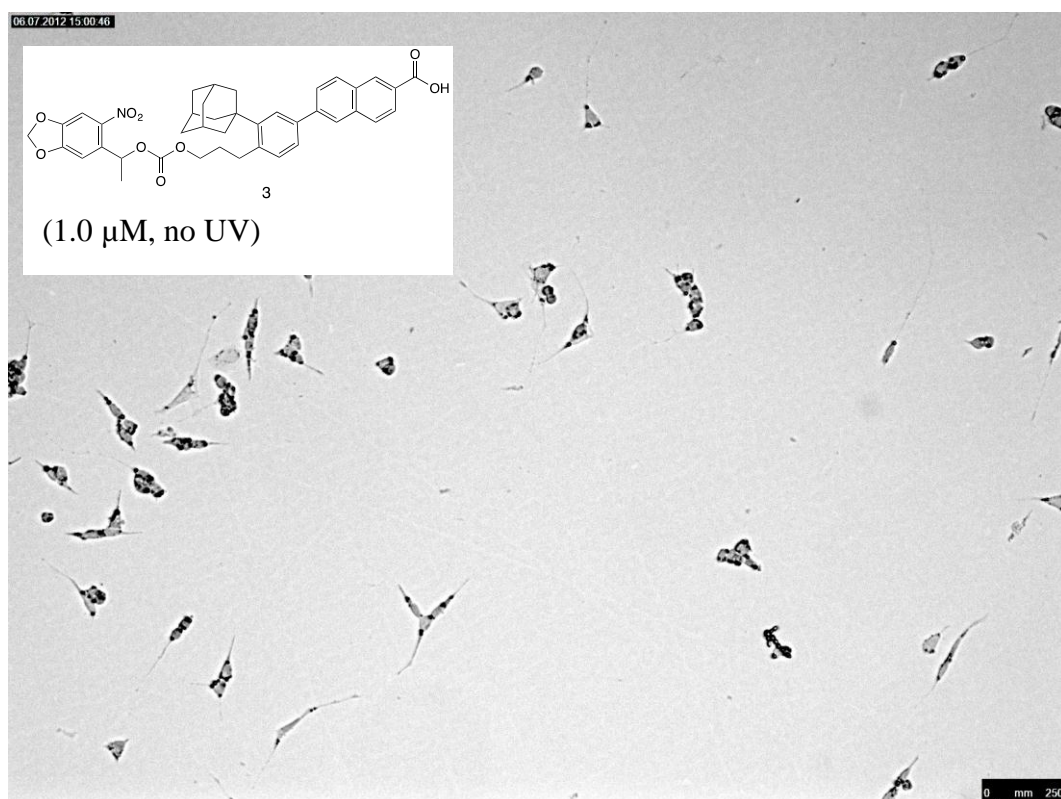
A



B



C



D

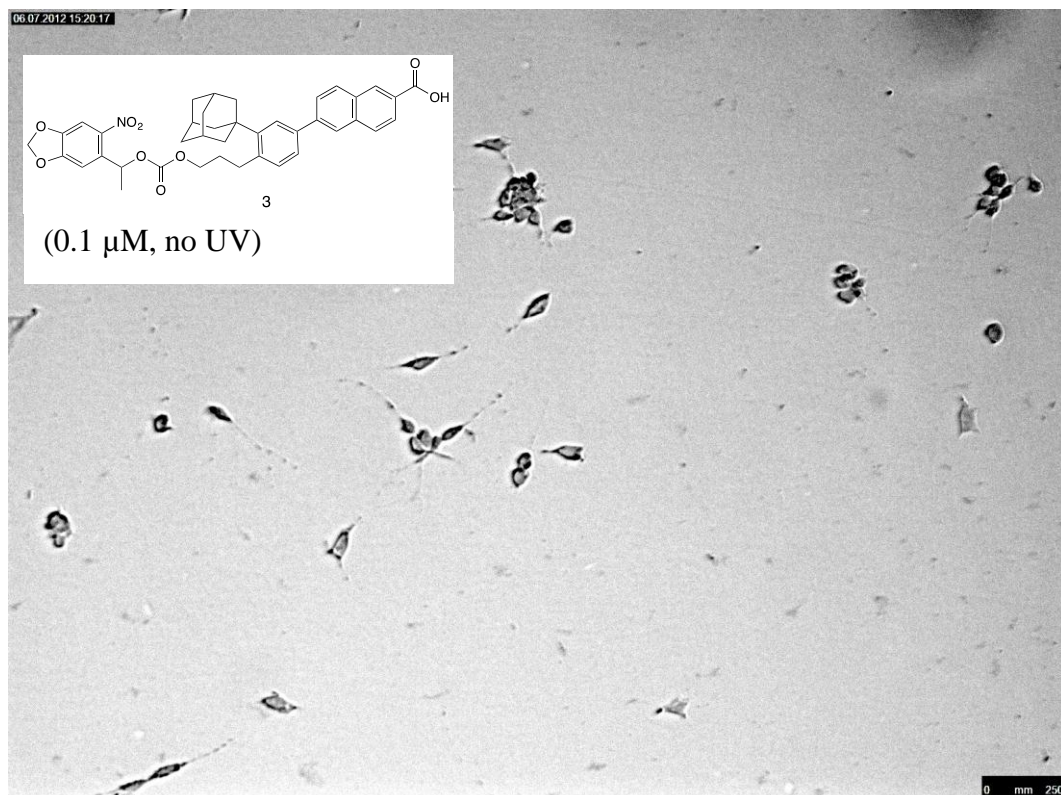
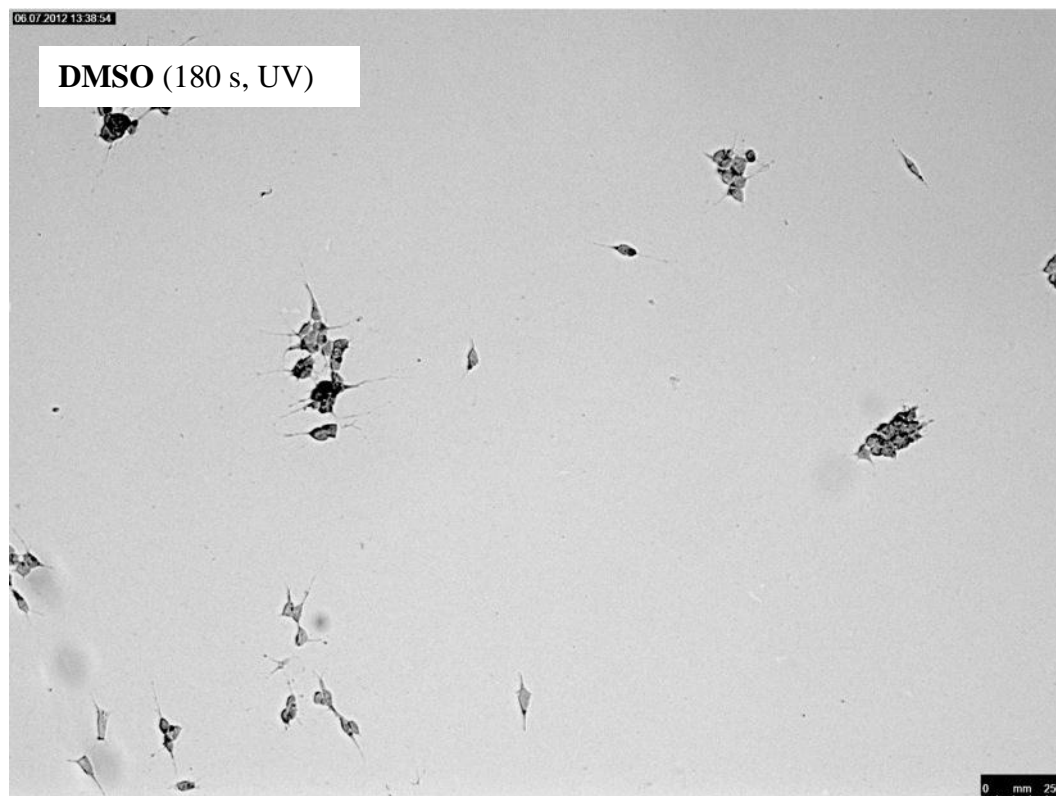


Figure 3B: Neurite outgrowth activity of DMSO control with UV irradiation: 180 s UV irradiation at 366 nm DMSO control (180 s UV, **E**), **3** (1.0 μ M, 60 s UV, **F**), **3** (0.1 μ M, 180 s UV, **G**), **3** (1.0 μ M, 180 s UV, **H**), **3** (1 μ M, 180 s UV, washed prior to irradiation, **I**) in human SH-SY5Y cells with MEM as cell medium.

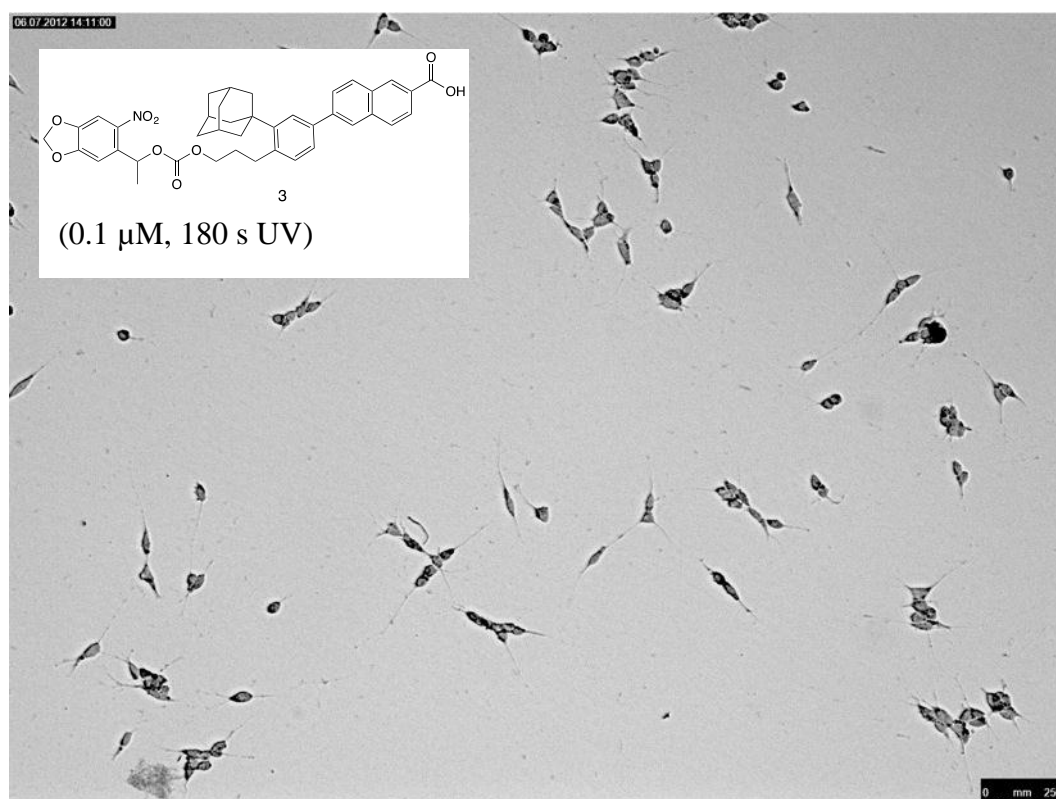
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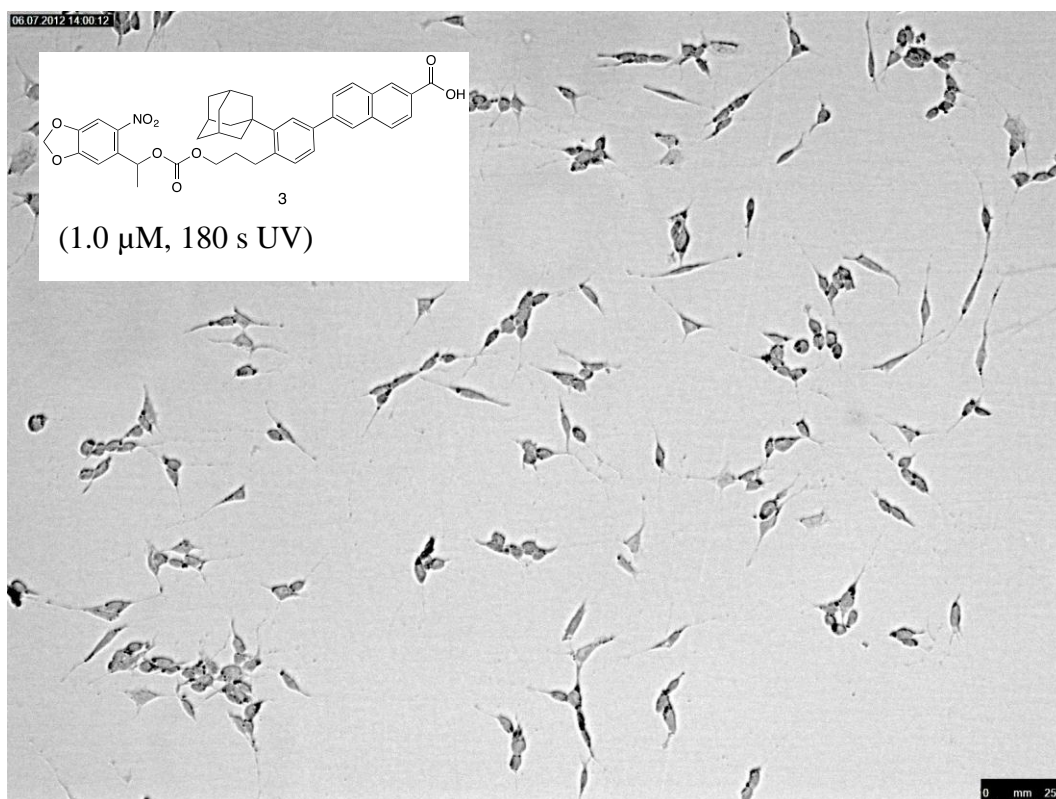
F



G



H



I

