

## Supporting Information

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### Novel oxalamide derivatives for COXs expression and breast cancer: design, synthesis, biological evaluation, and docking studies

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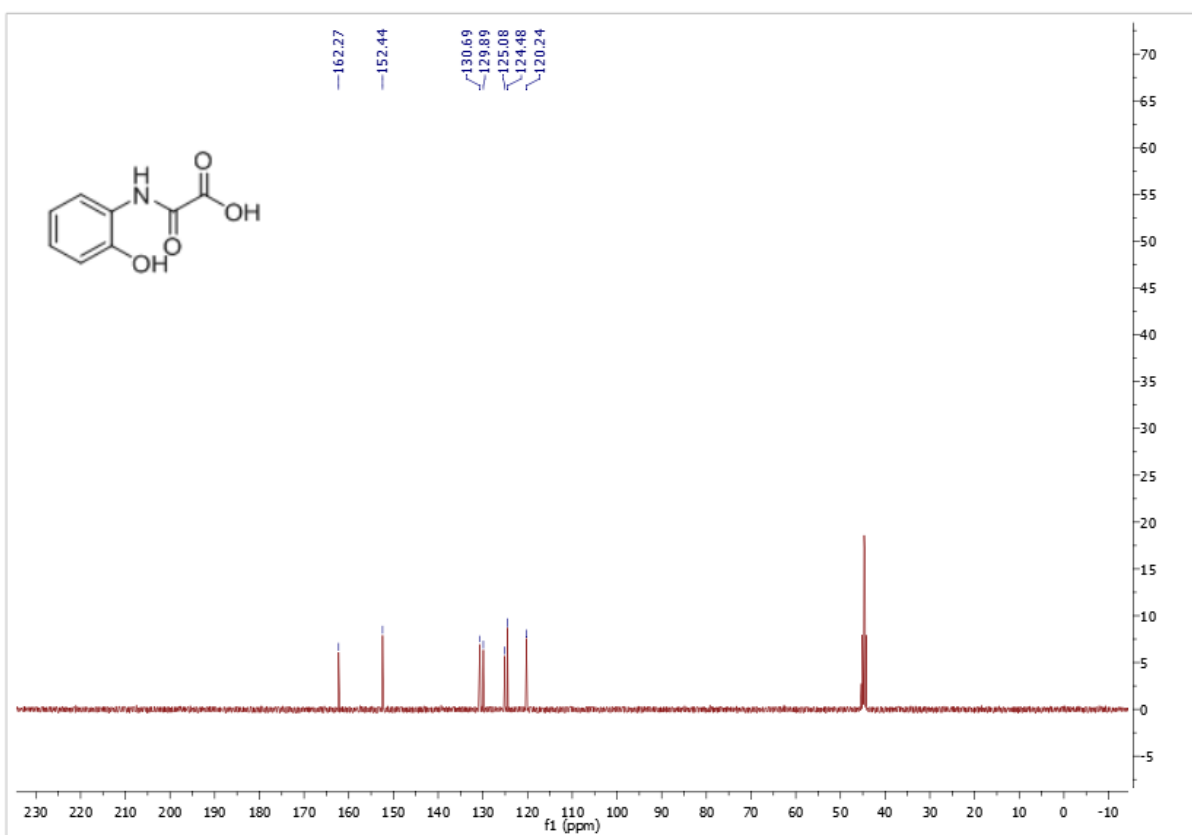
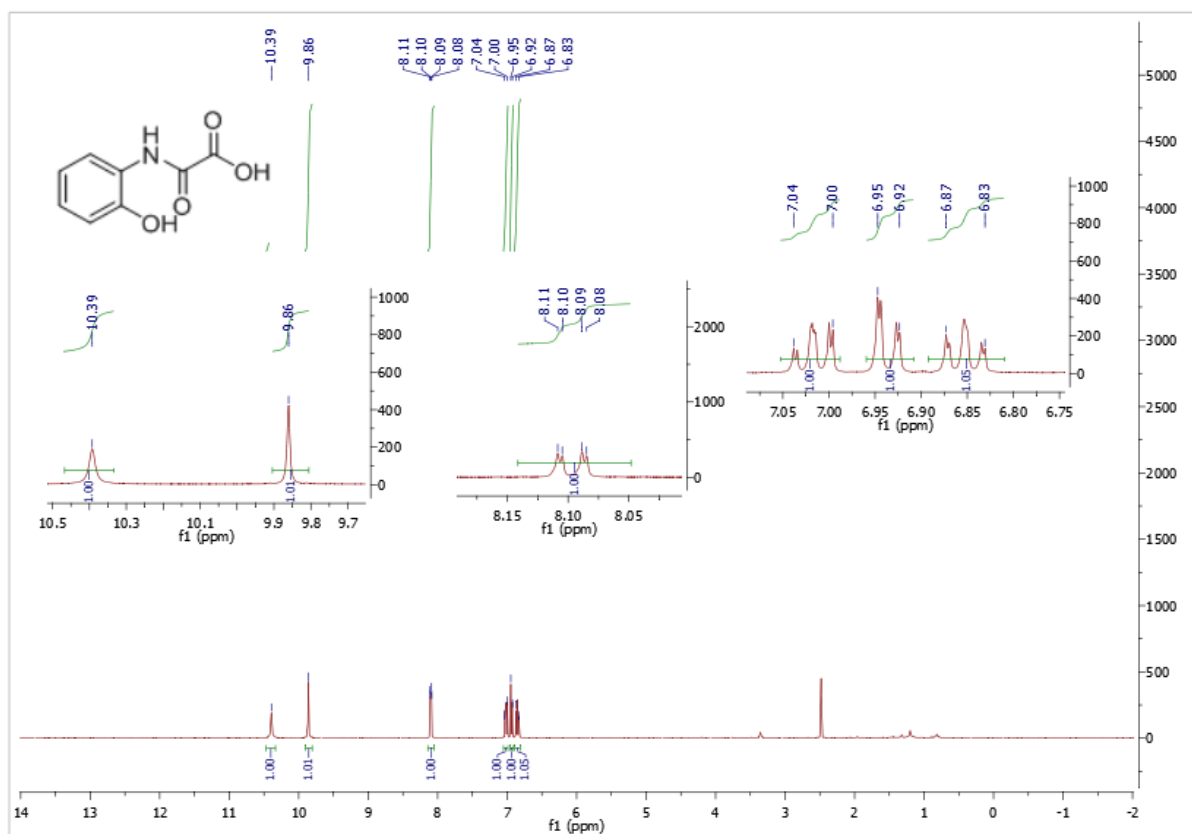
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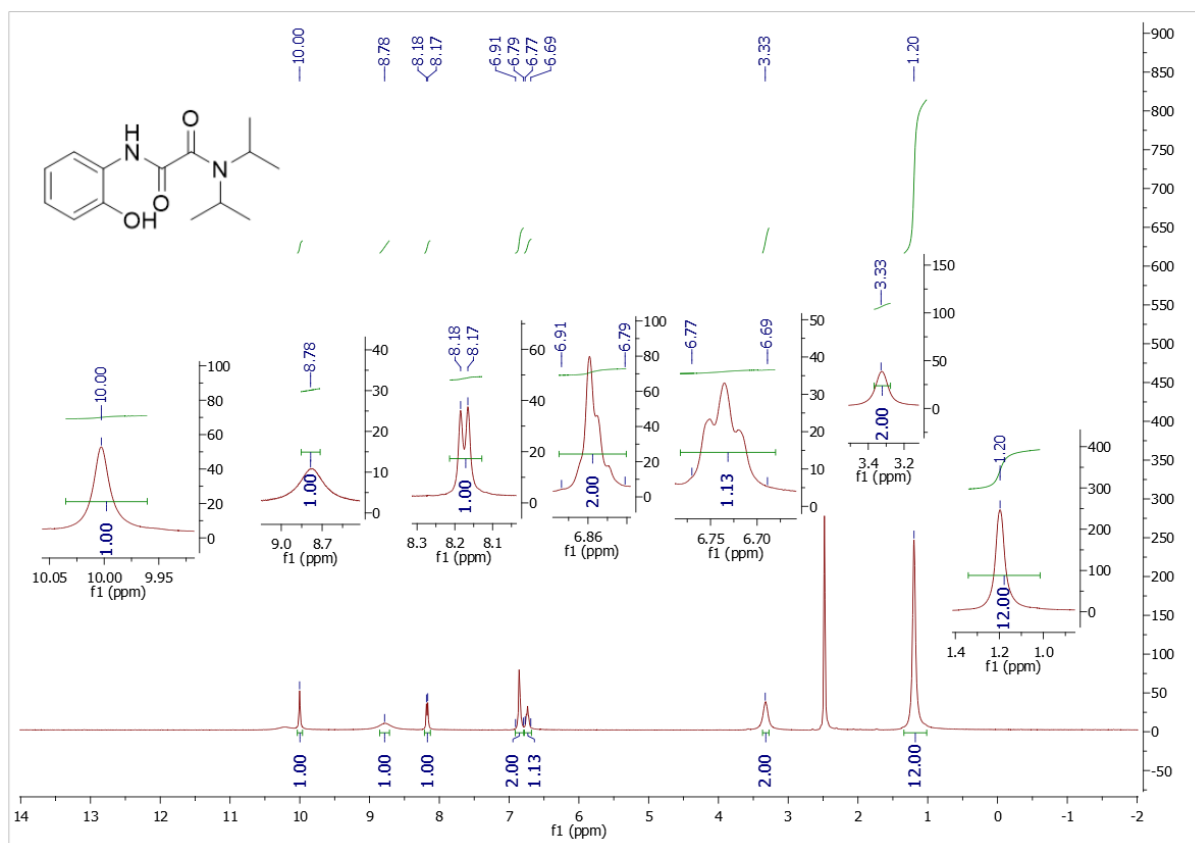
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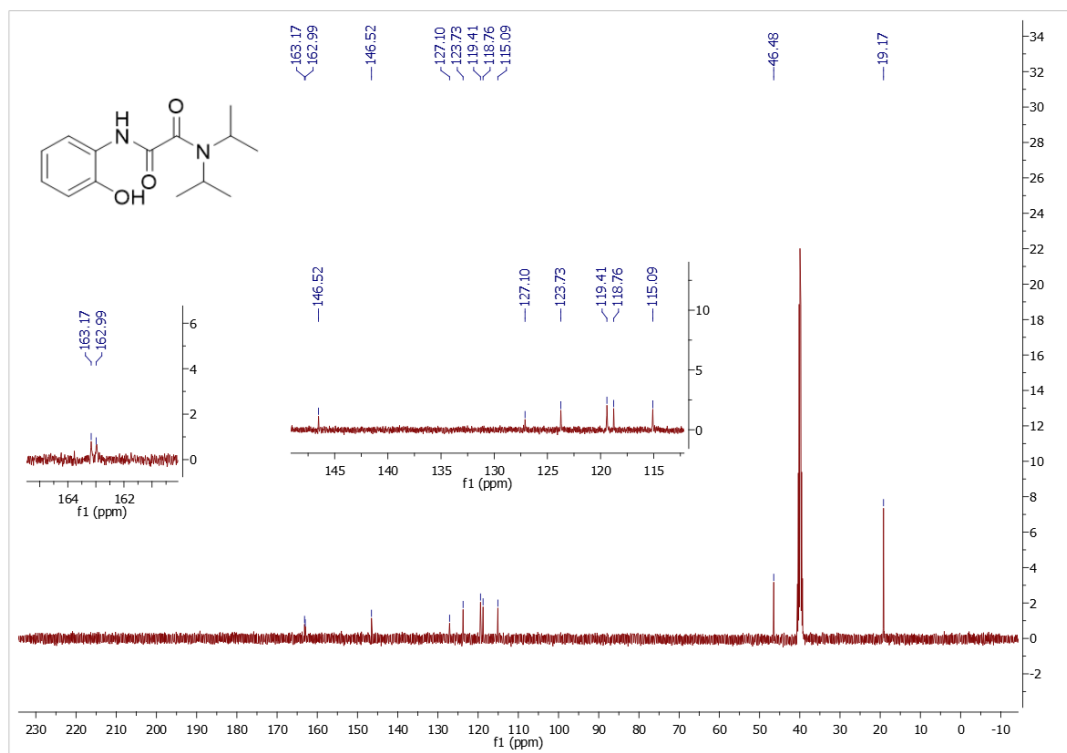
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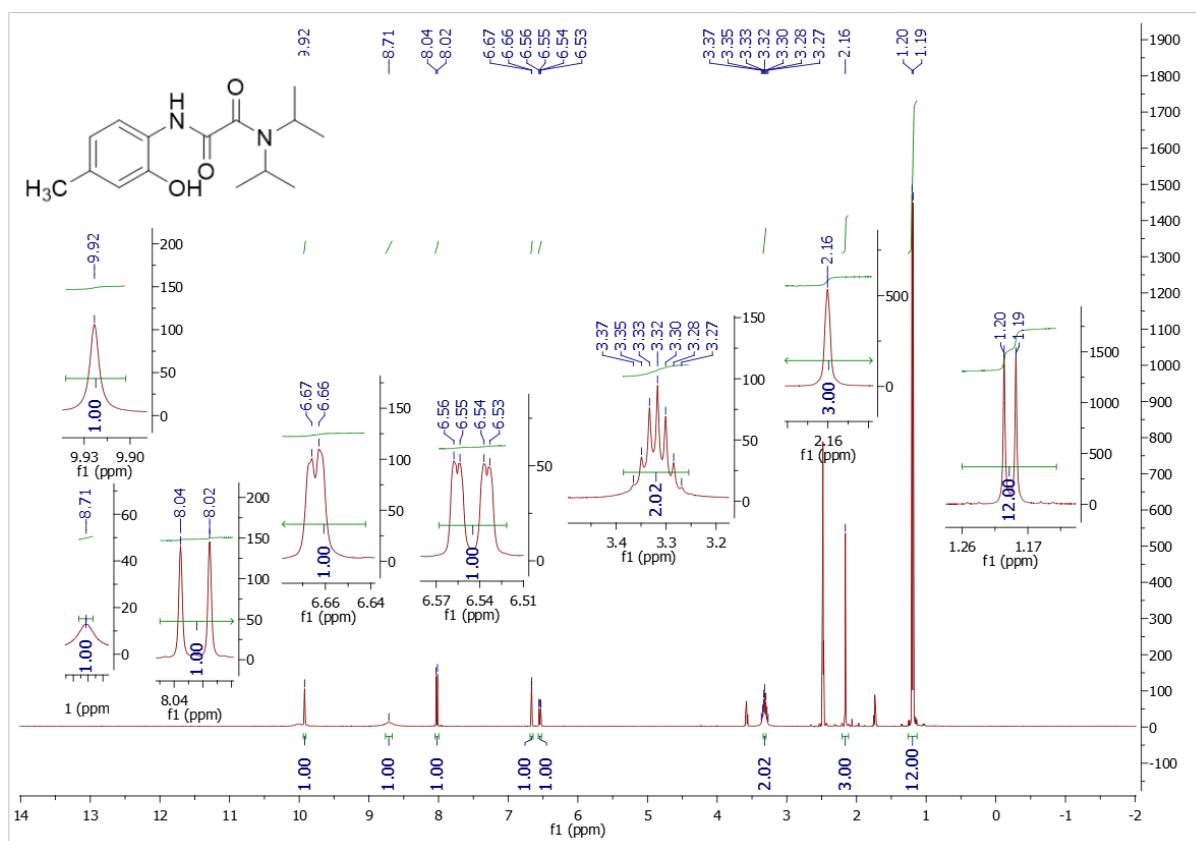




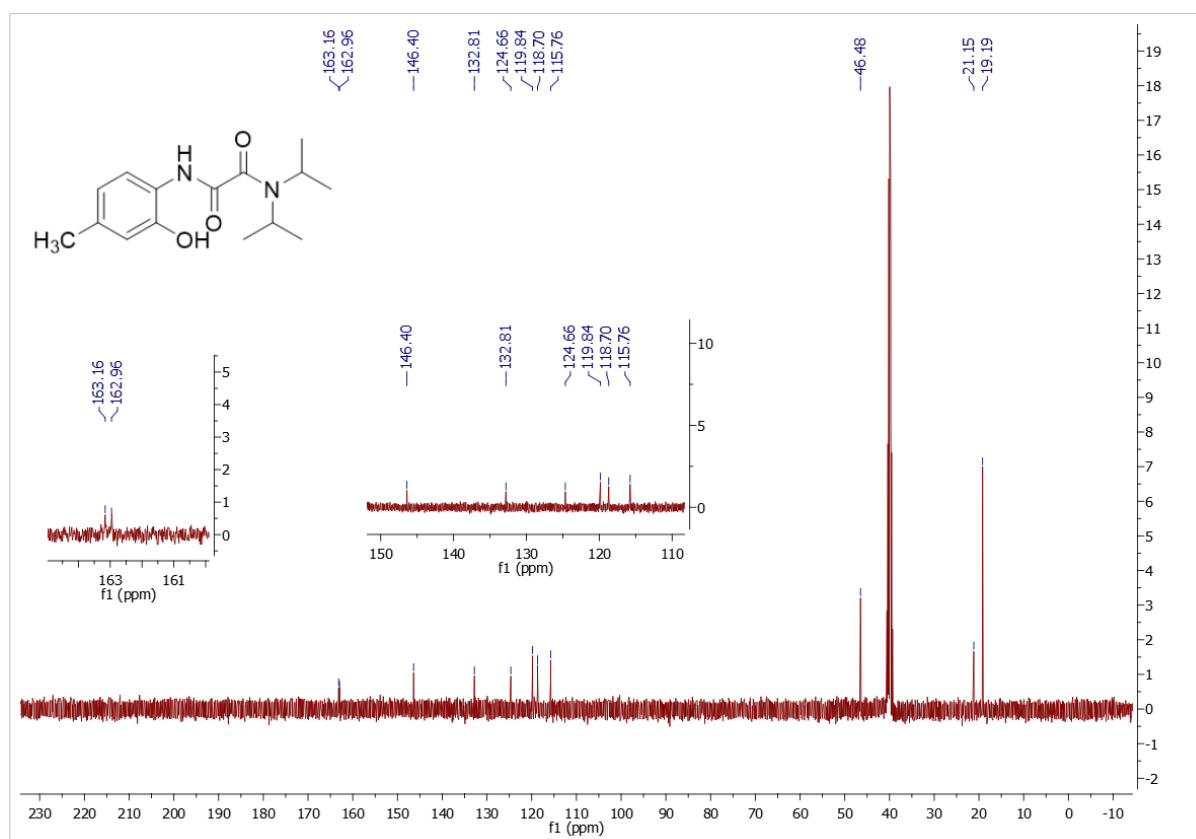
**Figure S3:** <sup>1</sup>H-NMR (400 MHz, *d*<sub>6</sub>-DMSO) Spectrum of 6a



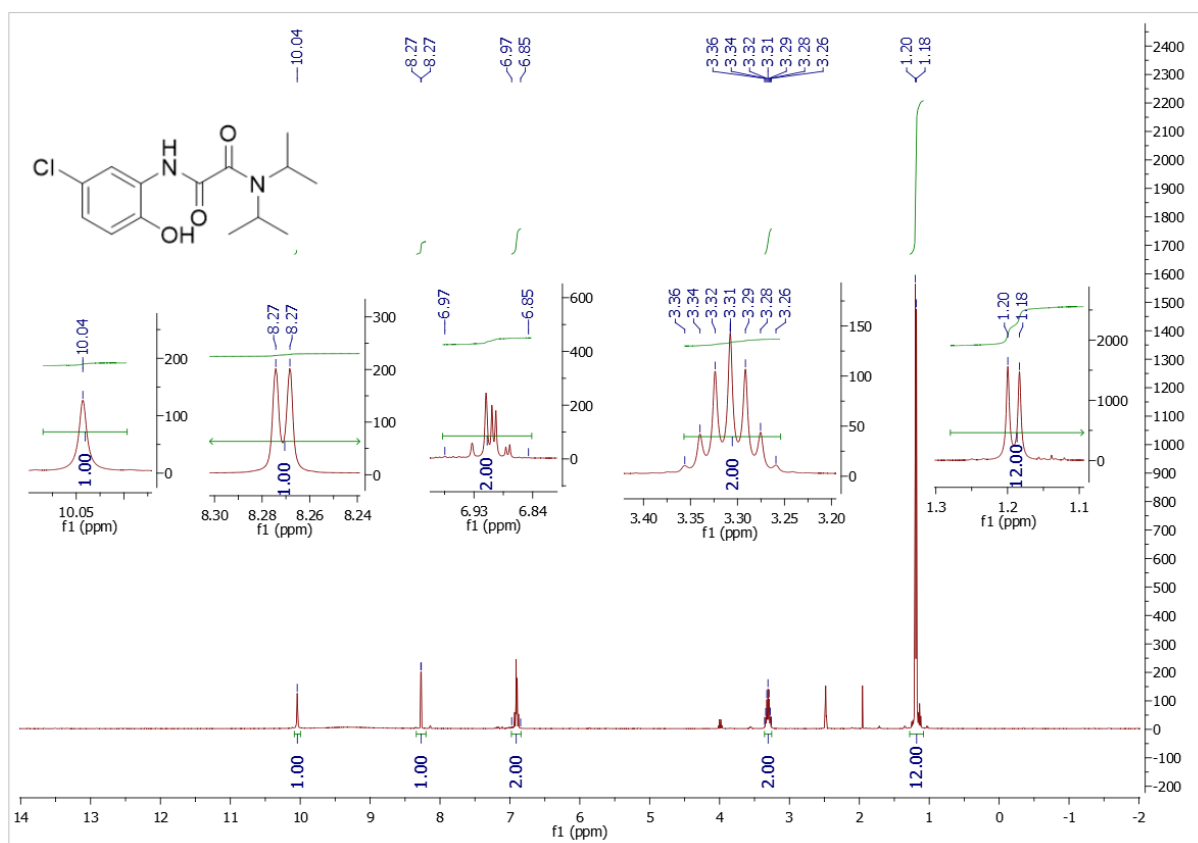
**Figure S4:** <sup>13</sup>C-NMR (100 MHz, *d*<sub>6</sub>-DMSO) Spectrum of 6a



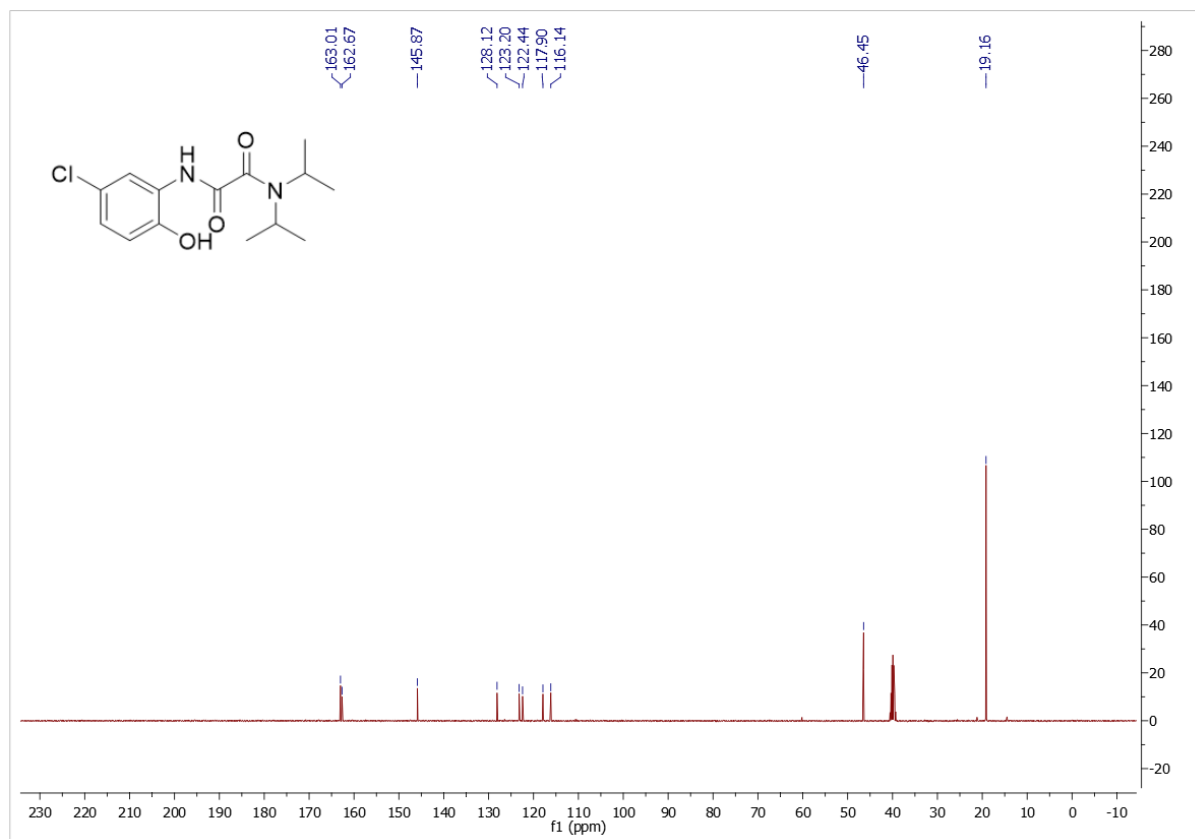
**Figure S5:** <sup>1</sup>H-NMR (400 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6b**



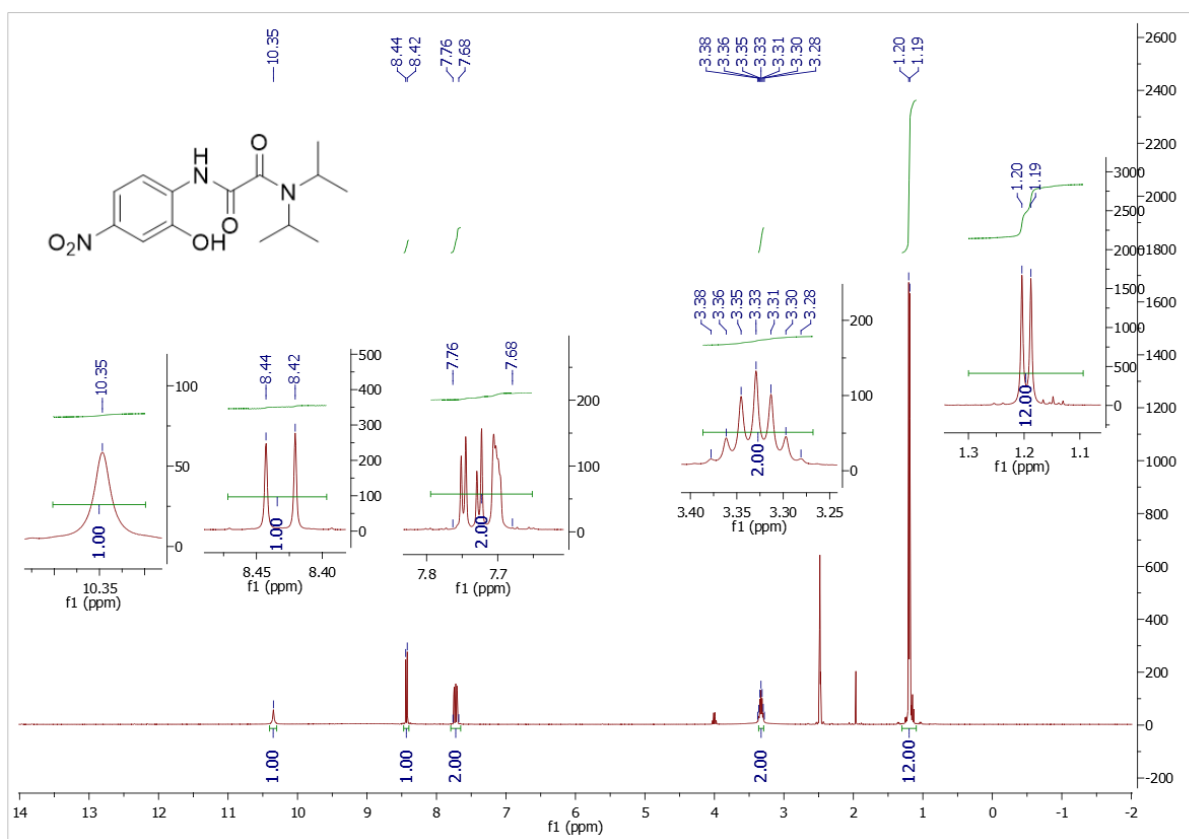
**Figure S6:** <sup>13</sup>C-NMR (100 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6b**



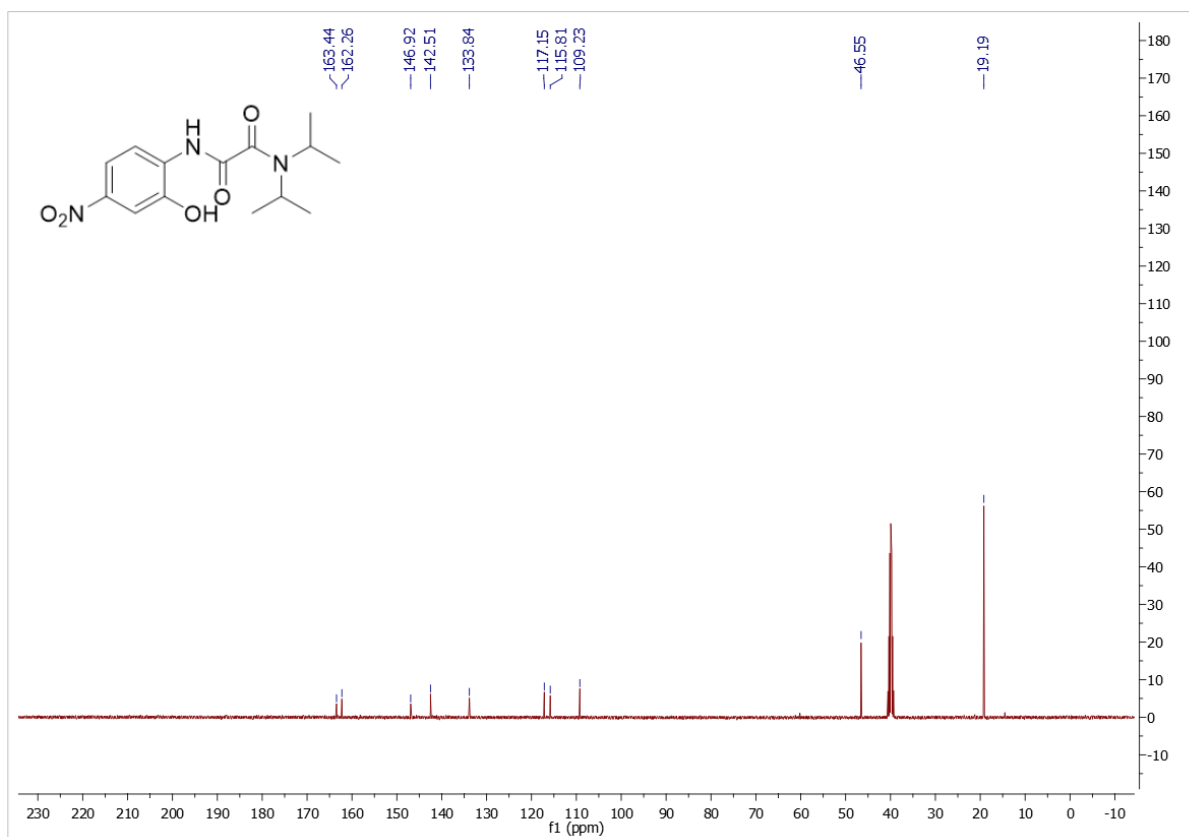
**Figure S7:** <sup>1</sup>H-NMR (400 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6c**



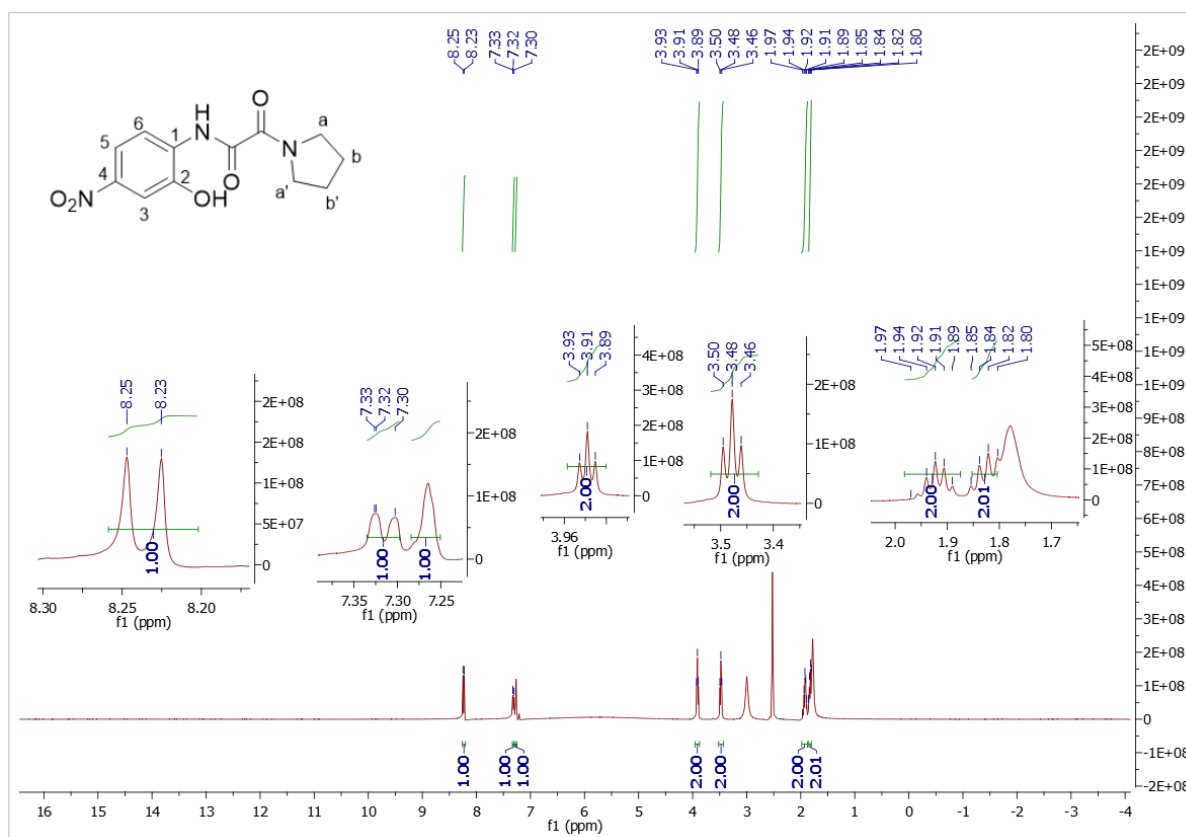
**Figure S8:** <sup>13</sup>C-NMR (100 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6c**



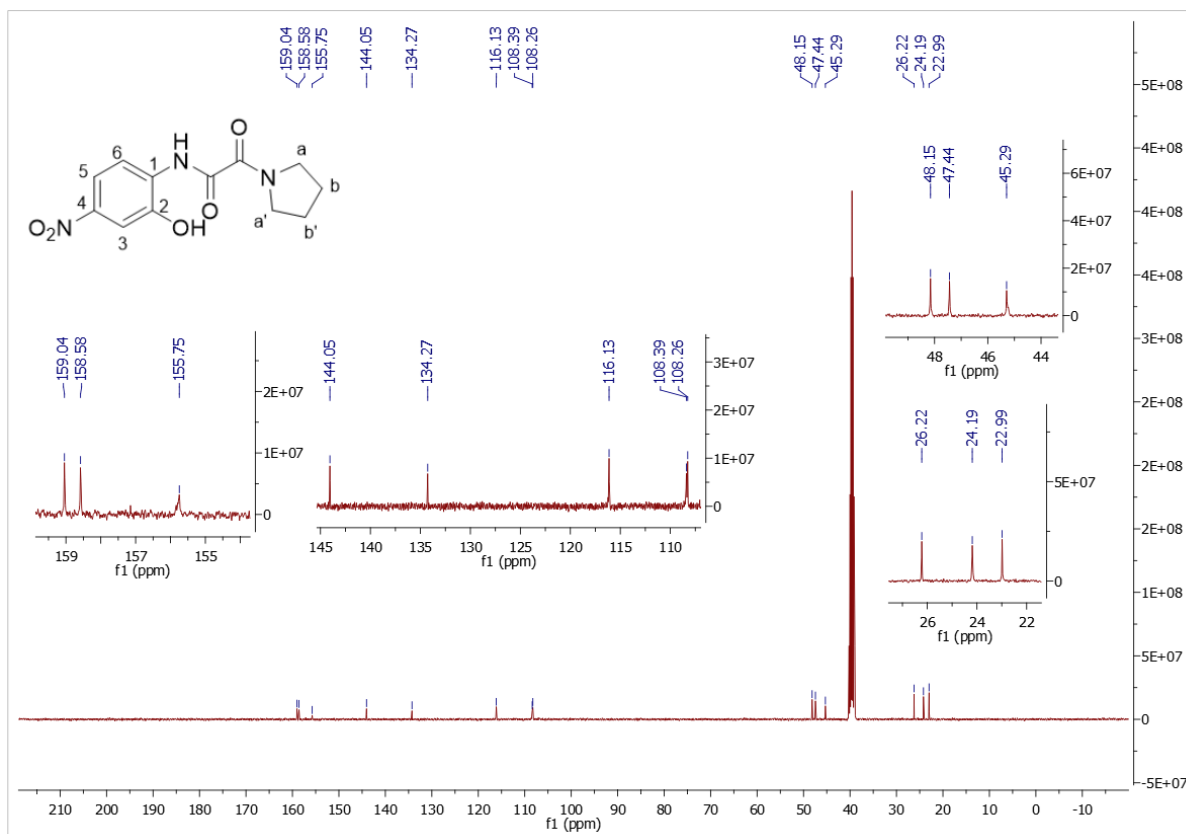
**Figure S9:** <sup>1</sup>H-NMR (400 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6d**



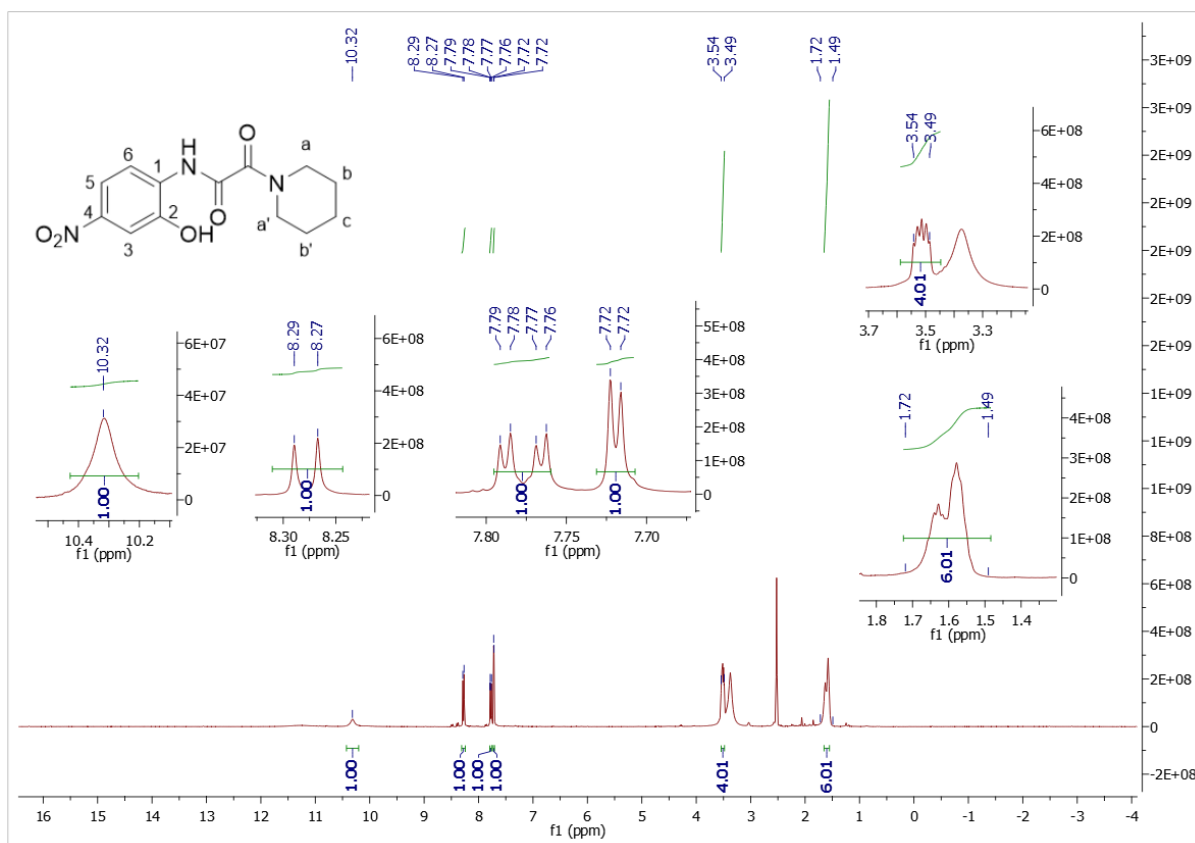
**Figure S10:** <sup>13</sup>C-NMR (100 MHz, *d*<sub>6</sub>-DMSO) Spectrum of **6d**



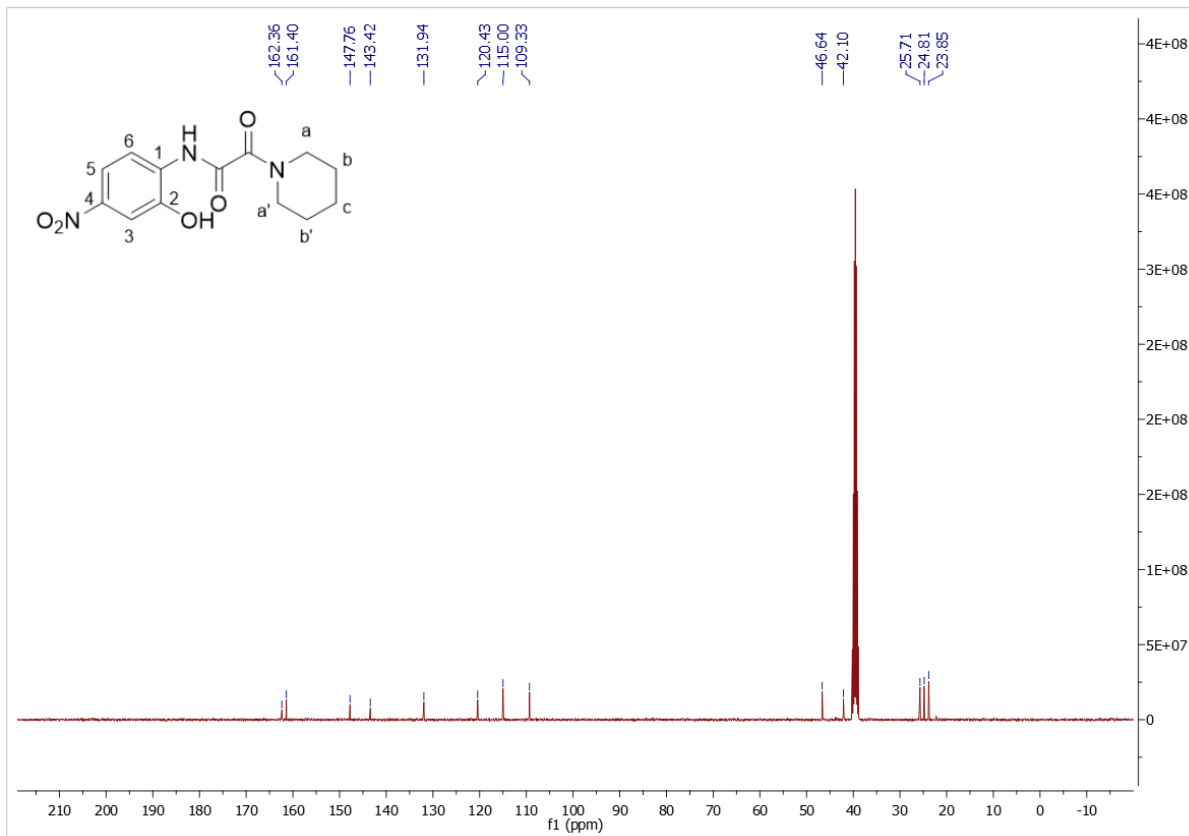
**Figure S11:  $^1\text{H}$ -NMR (400 MHz,  $d_6$ -DMSO) Spectrum of **7a****



**Figure S12:**  $^{13}\text{C}$ -NMR (100 MHz,  $d_6$ -DMSO) Spectrum of **7a**

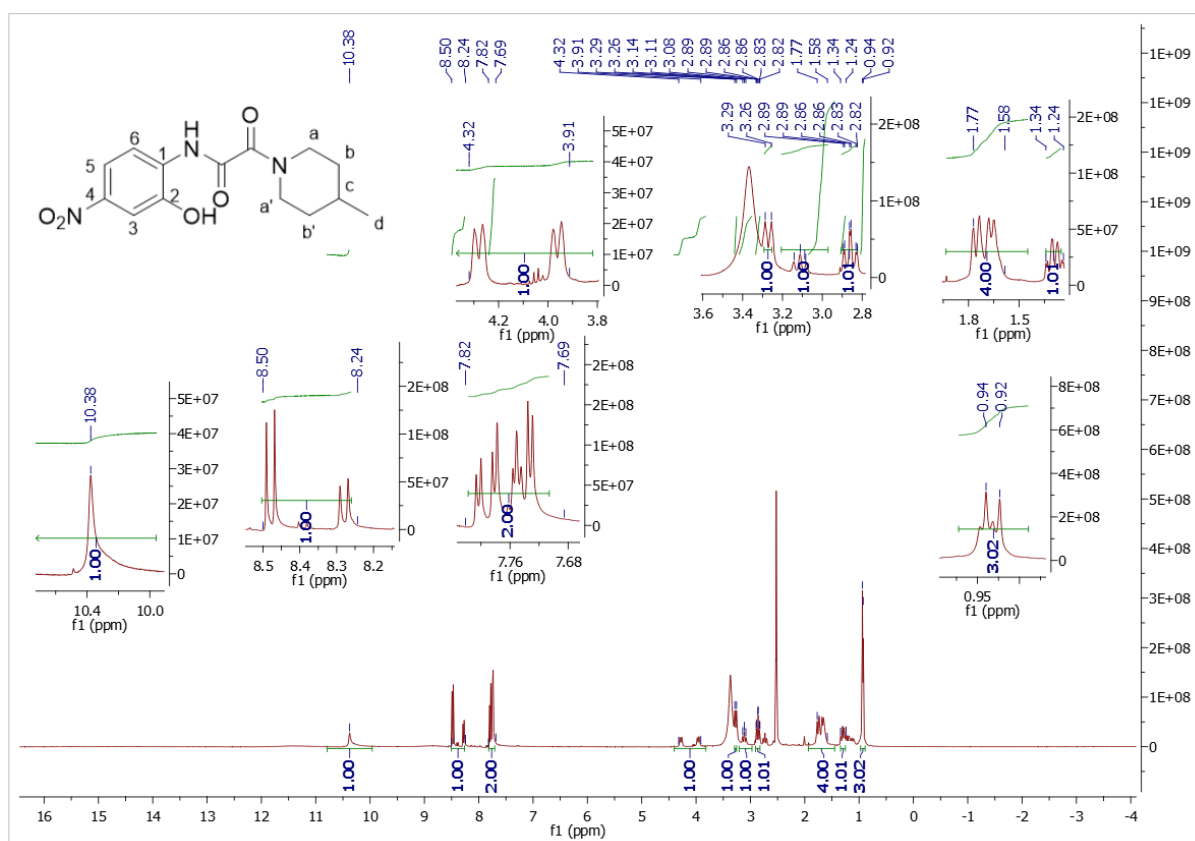


**Figure S13:**  $^1\text{H}$ -NMR (400 MHz,  $d_6$ -DMSO) Spectrum of **7b**

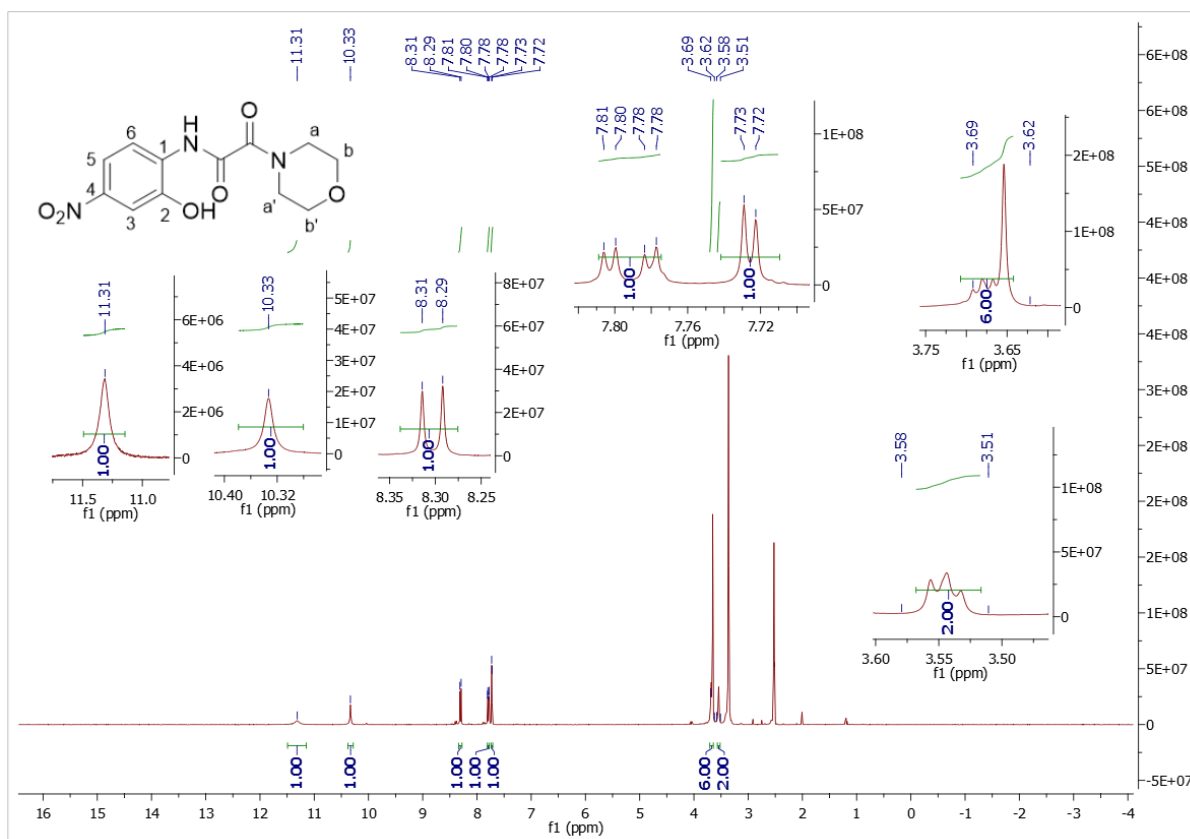
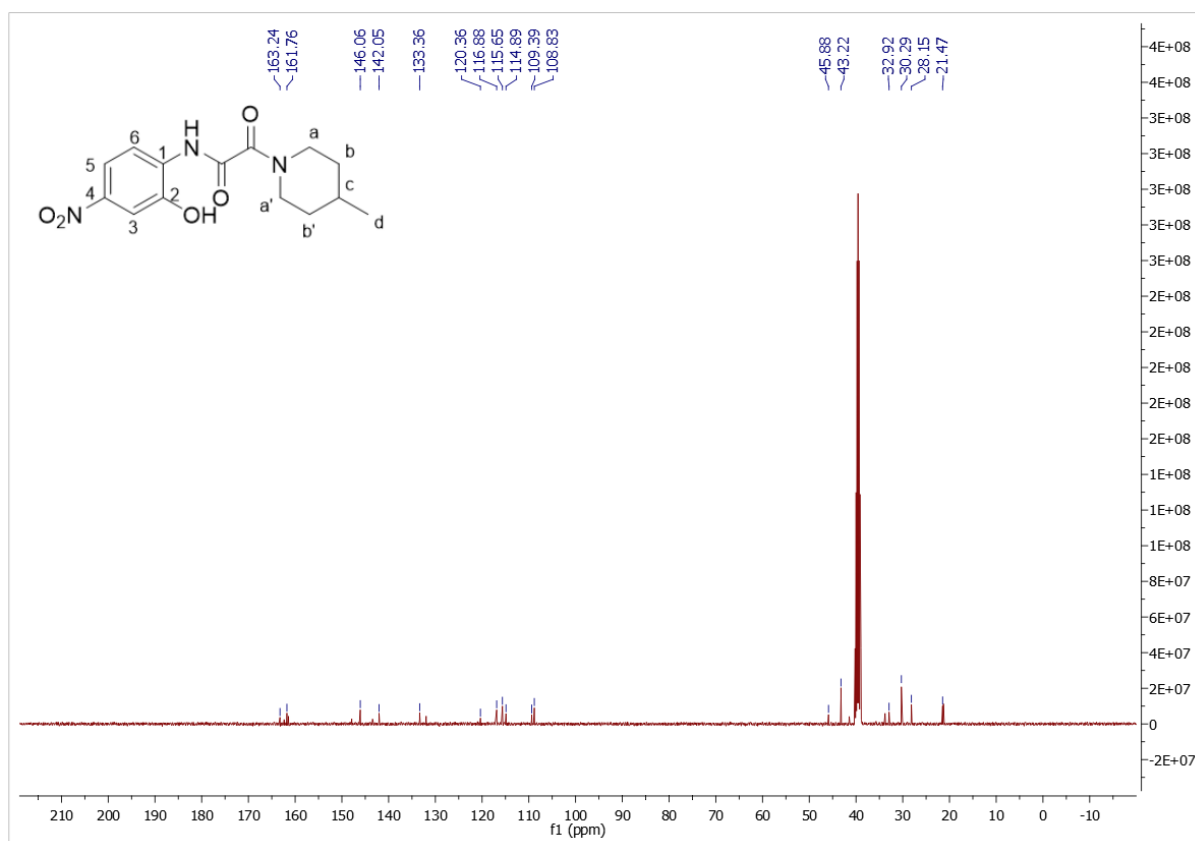


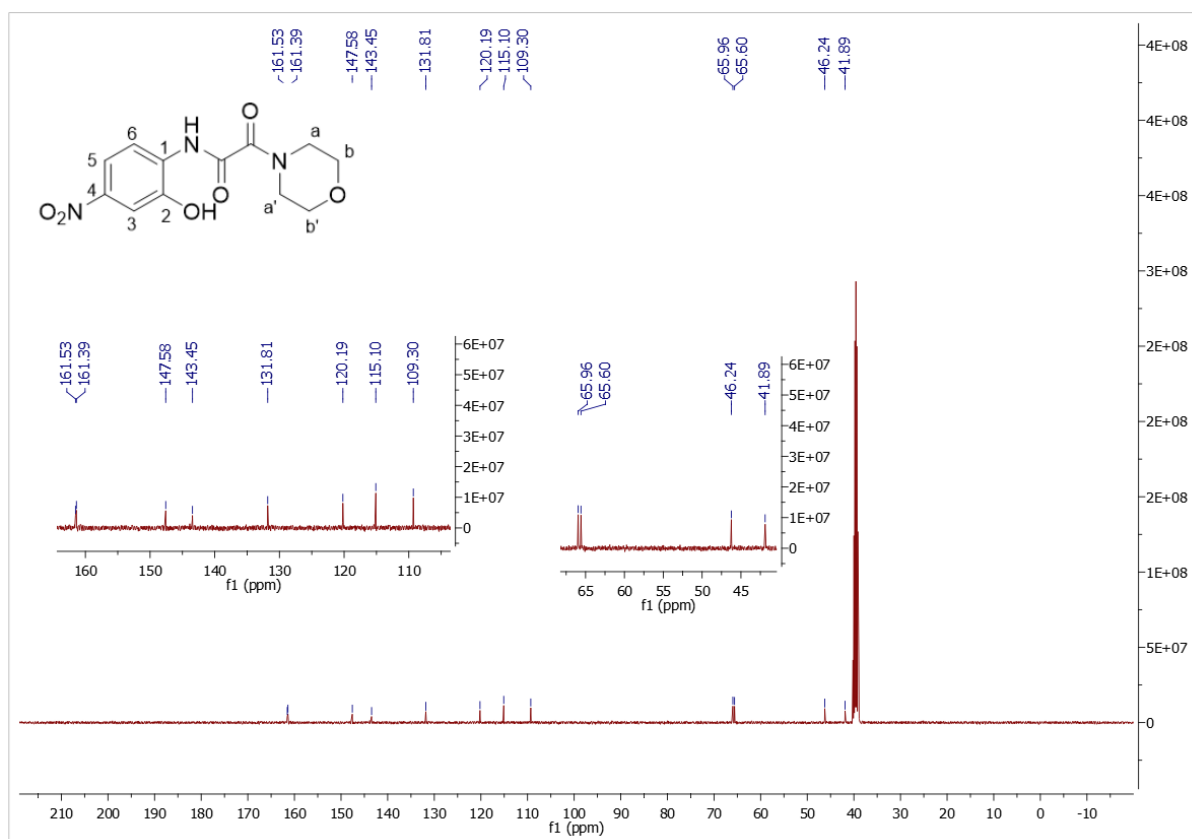


**Figure S14:**  $^{13}\text{C}$ -NMR (100 MHz,  $d_6$ -DMSO) Spectrum of **7b**



**Figure S15:**  $^1\text{H}$ -NMR (400 MHz,  $d_6$ -DMSO) Spectrum of **7c**





**Figure S18:**  $^{13}\text{C}$ -NMR (100 MHz,  $d_6$ -DMSO) Spectrum of **7d**