

Design, Synthesis, and *In Vitro* Preliminary Cytotoxicity Evaluation of New Anthraquinone-2-Carboxylic Acid Derivatives



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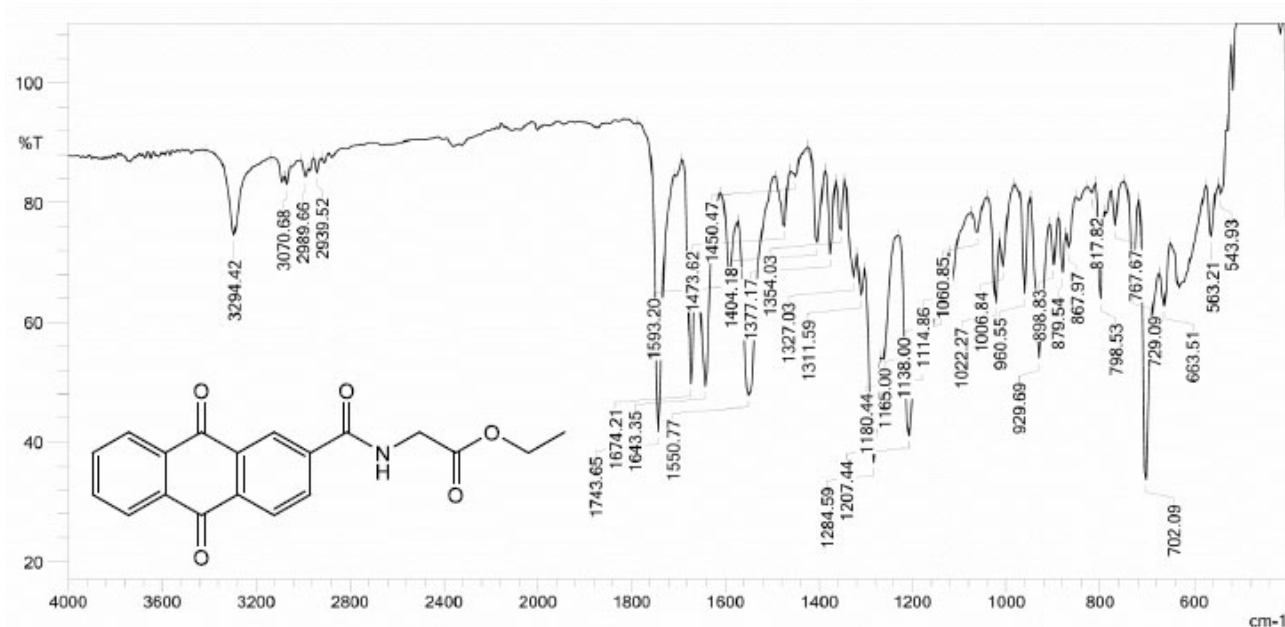
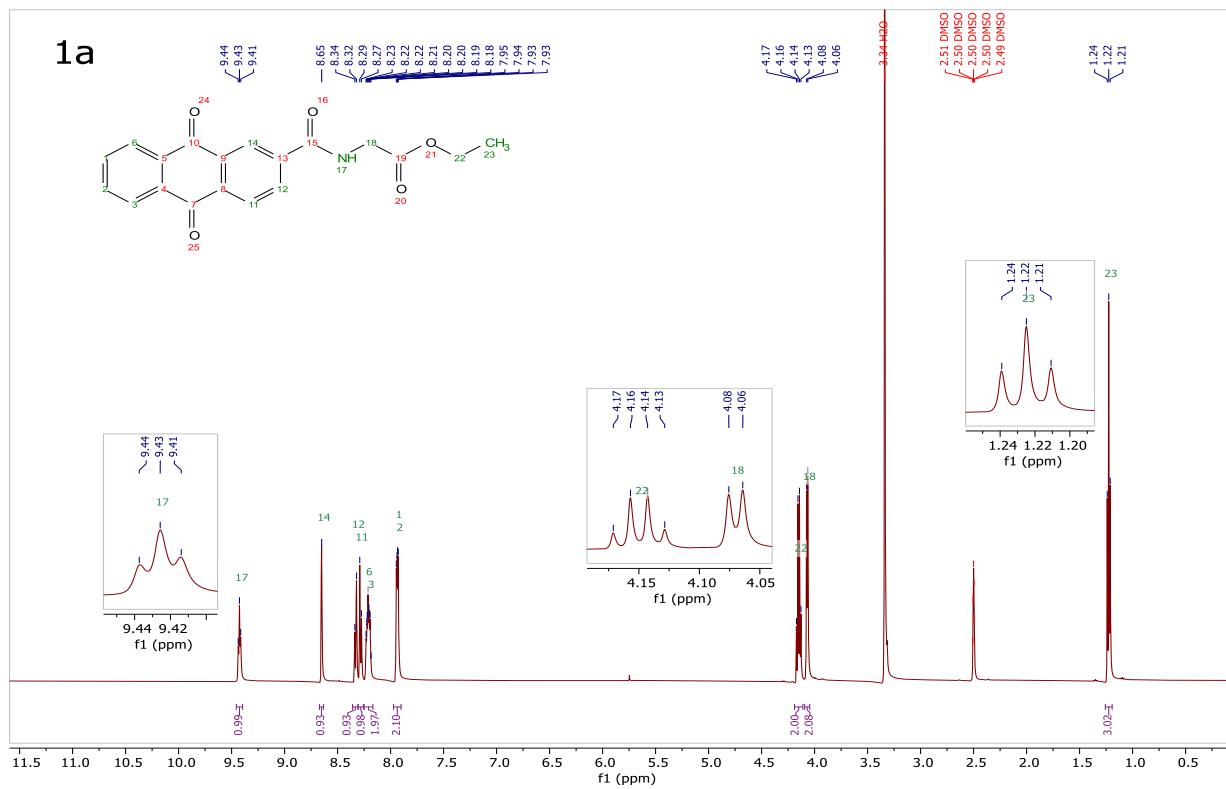
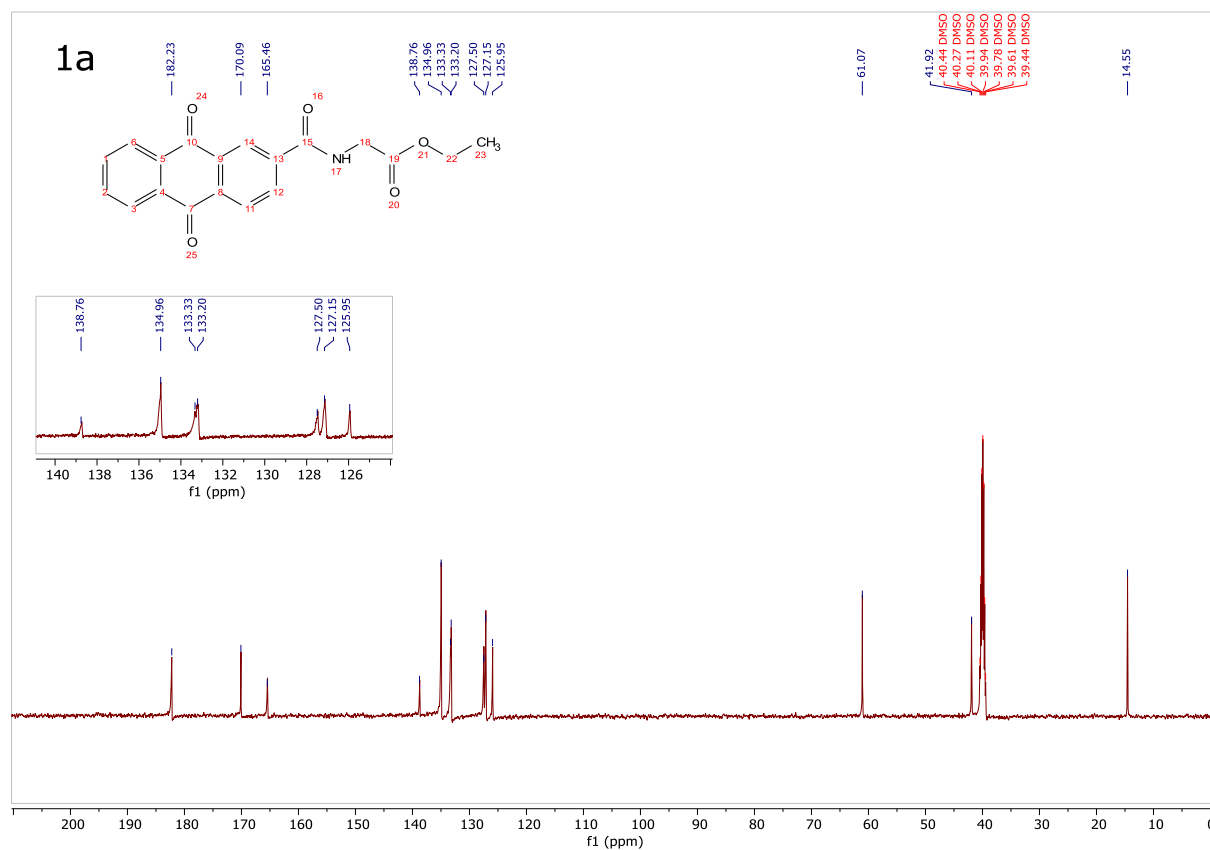


Fig. (S1). FT-IR spectrum of **1a**.

Fig. (S2). $^1\text{H-NMR}$ spectrum of **1a**.Fig. (S3). $^{13}\text{C-NMR}$ spectrum of **1a**.

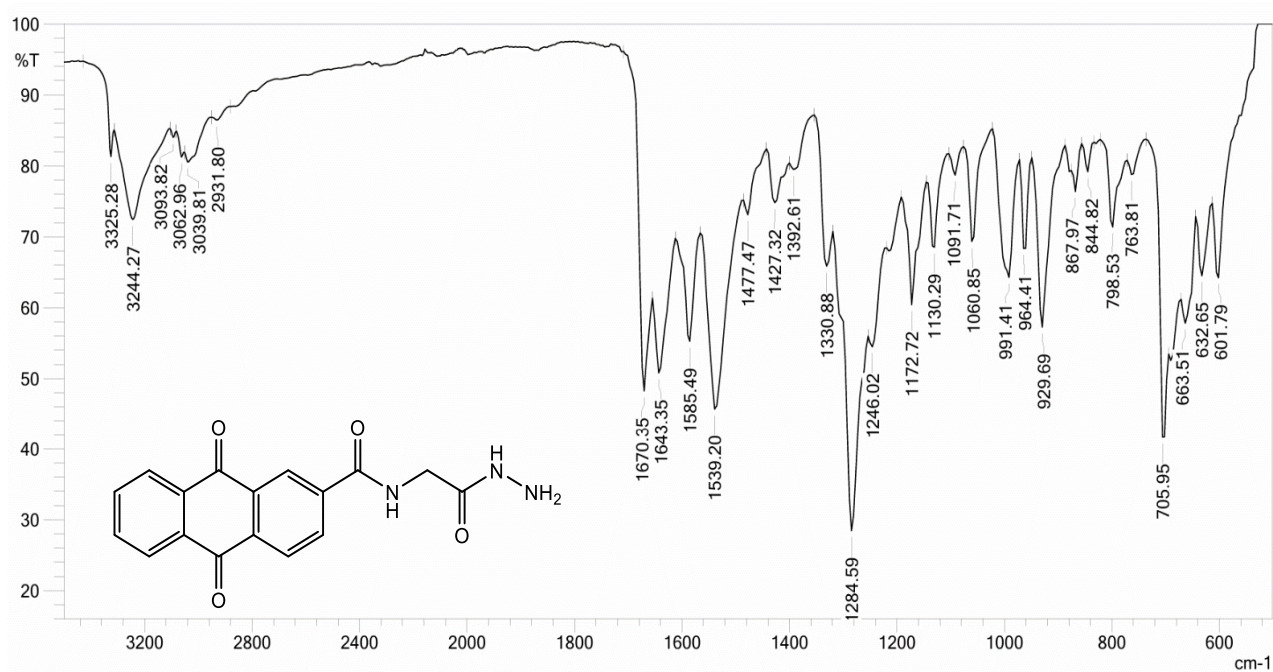
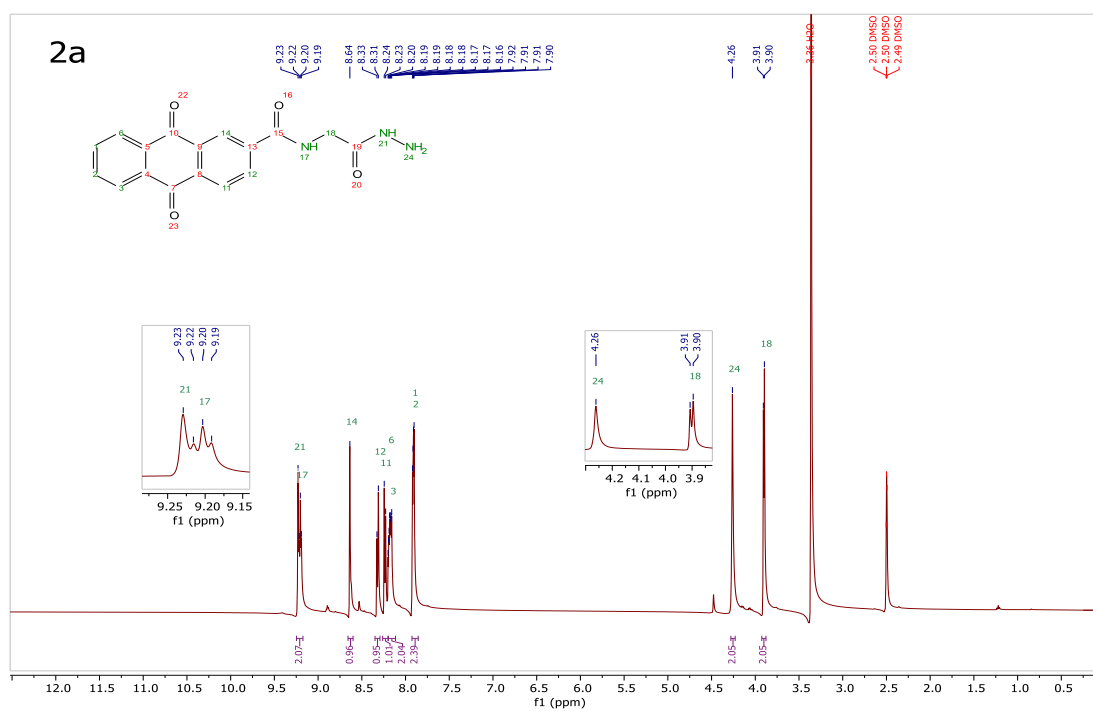


Fig. (S4). FT-IR spectrum of 2a.

Fig. (S5). ¹H-NMR spectrum of compound 2a.

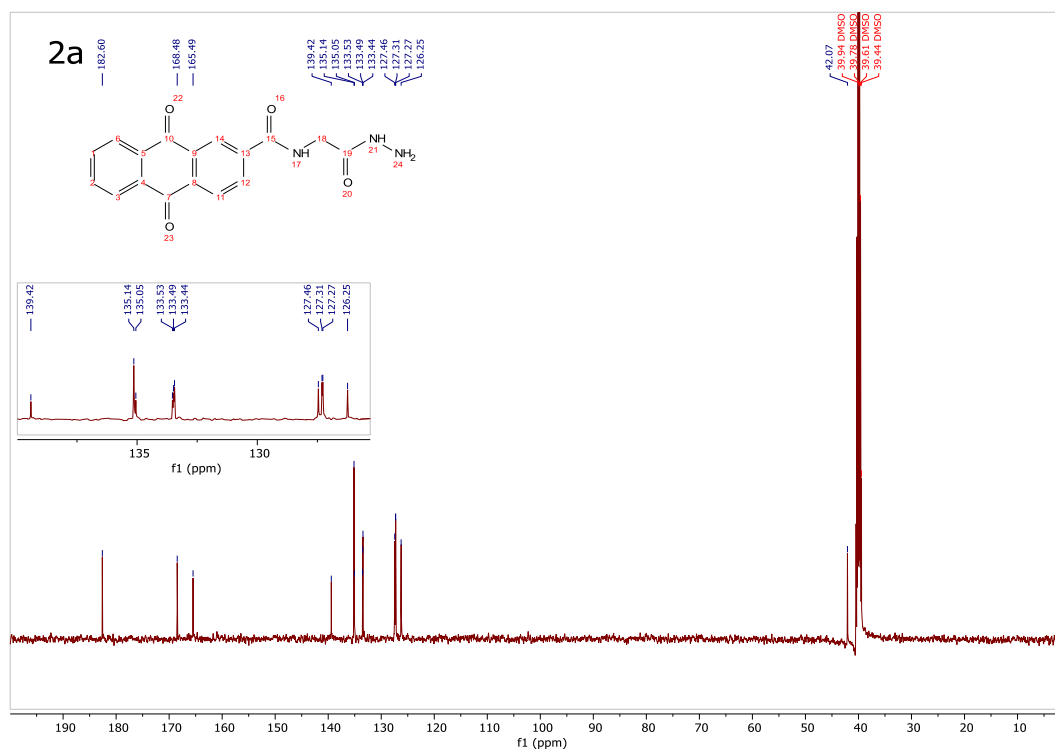
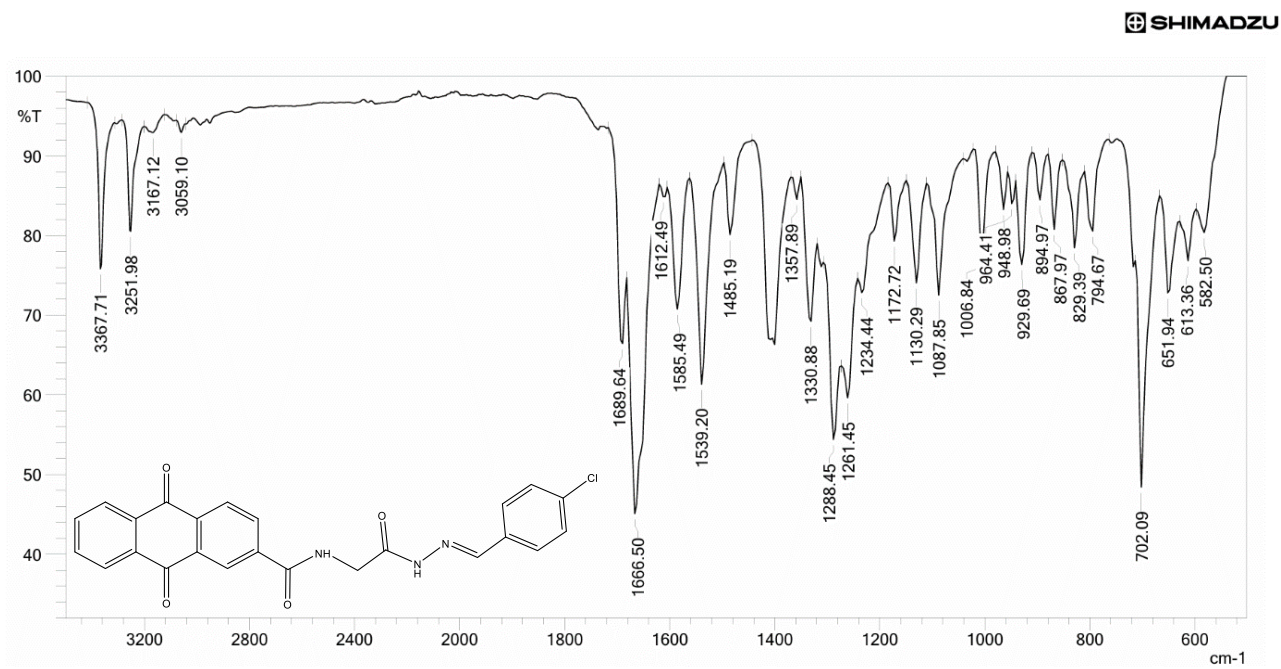
Fig. (S6). ^{13}C -NMR spectrum of 2a.

Fig. (S7). FT-IR spectrum of 3a.

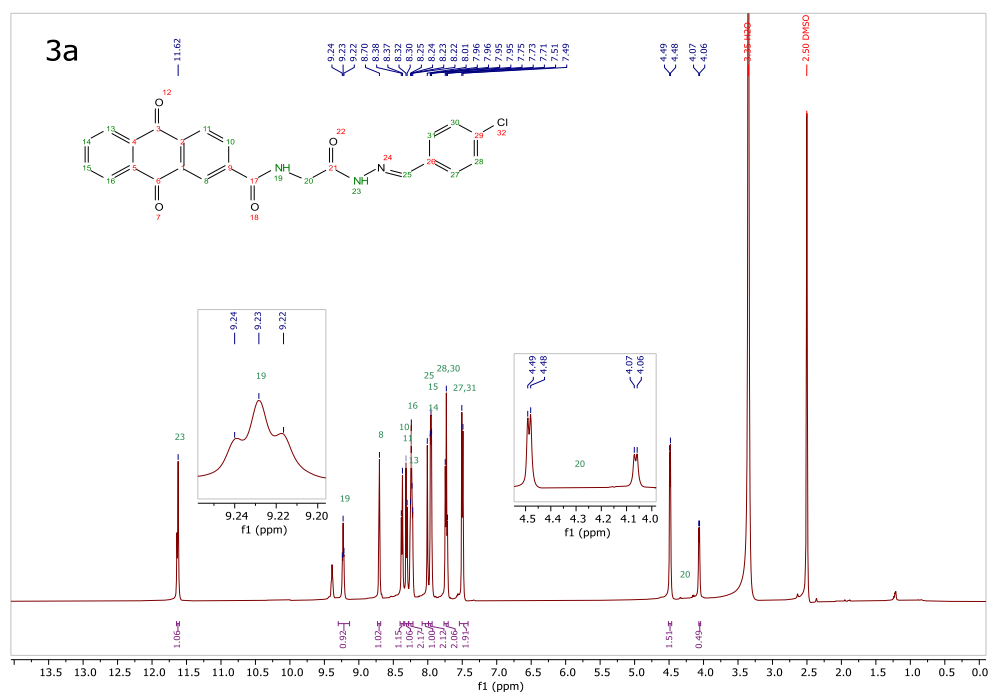


Fig. (S8). $^1\text{H-NMR}$ spectrum of **3a**.

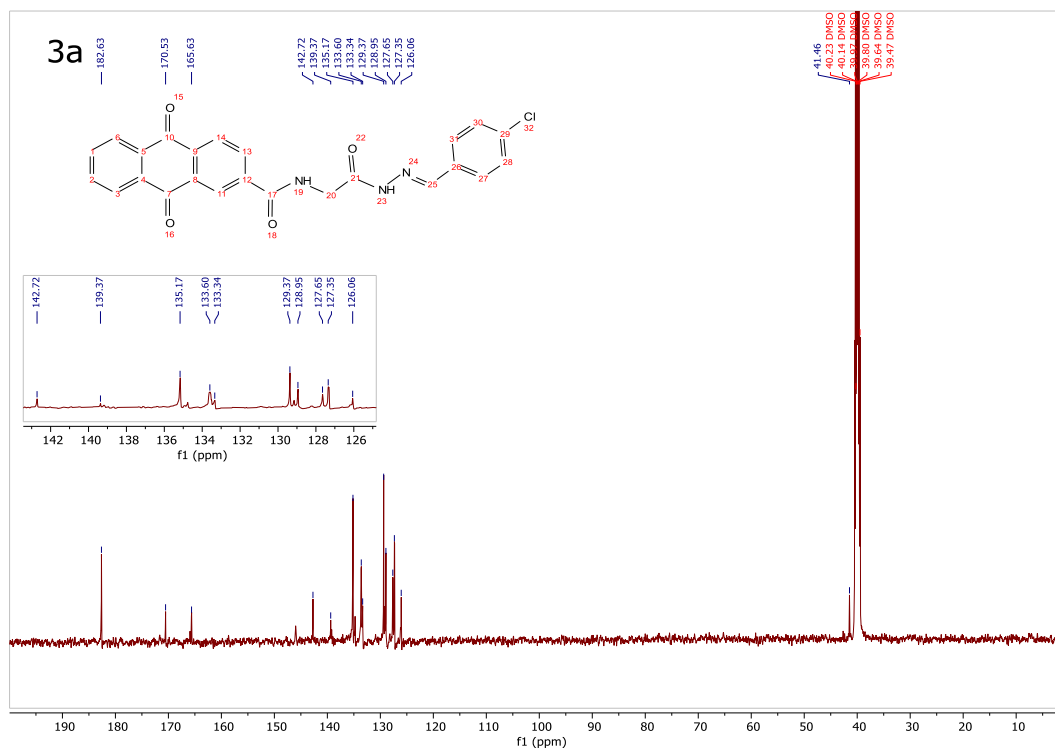


Fig. (S9). $^{13}\text{C-NMR}$ spectrum of **3a**.

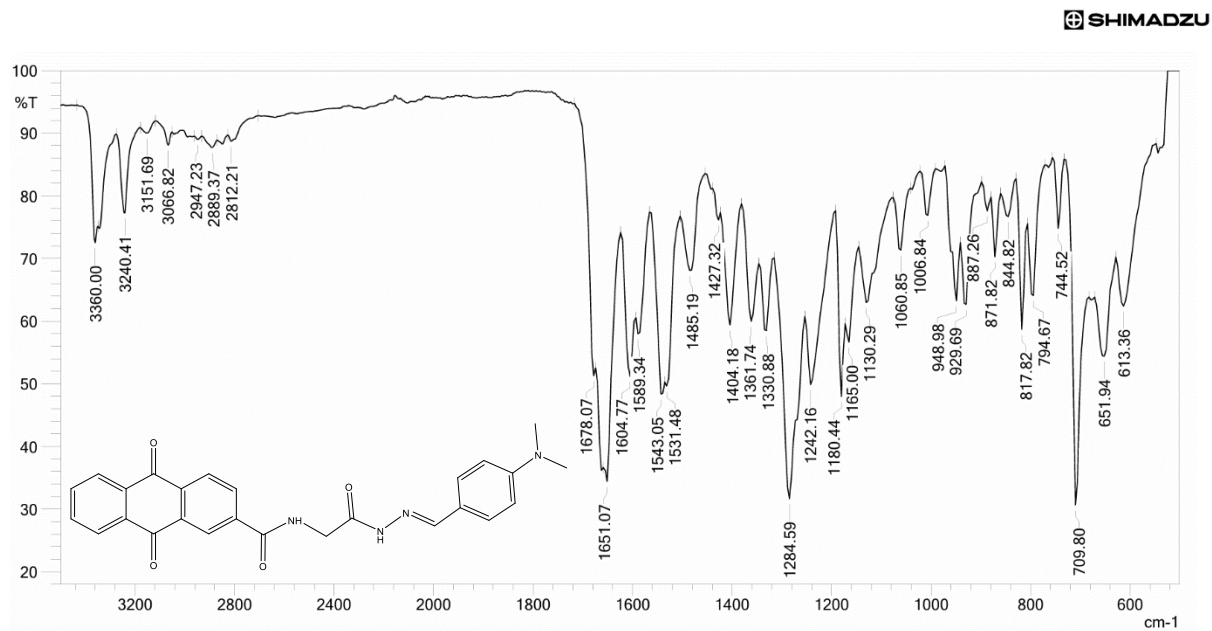
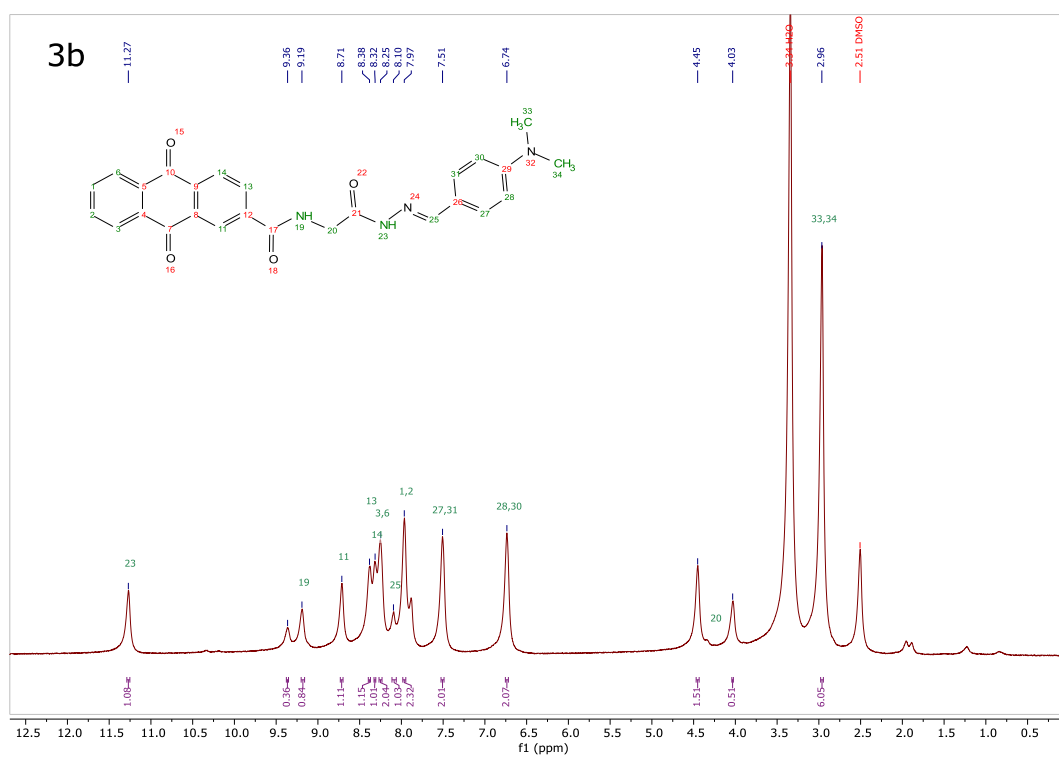


Fig. (S10). FT-IR spectrum of 3b.

Fig. (S11). ¹H-NMR spectrum of 3b.

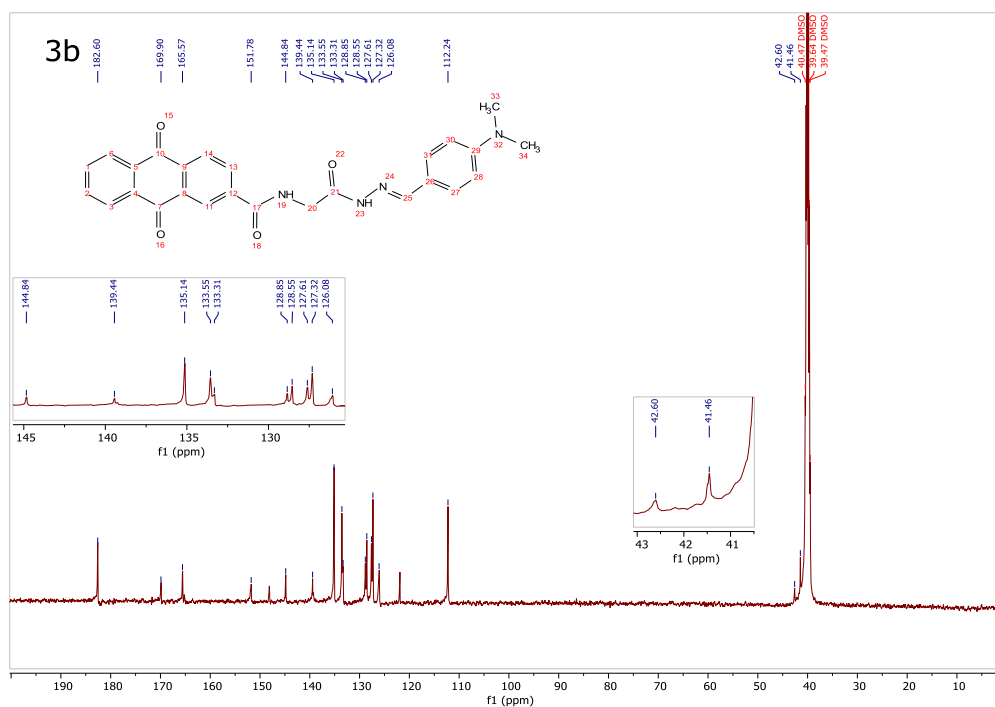


Fig. (S12). ^{13}C -NMR spectrum of **3b**.

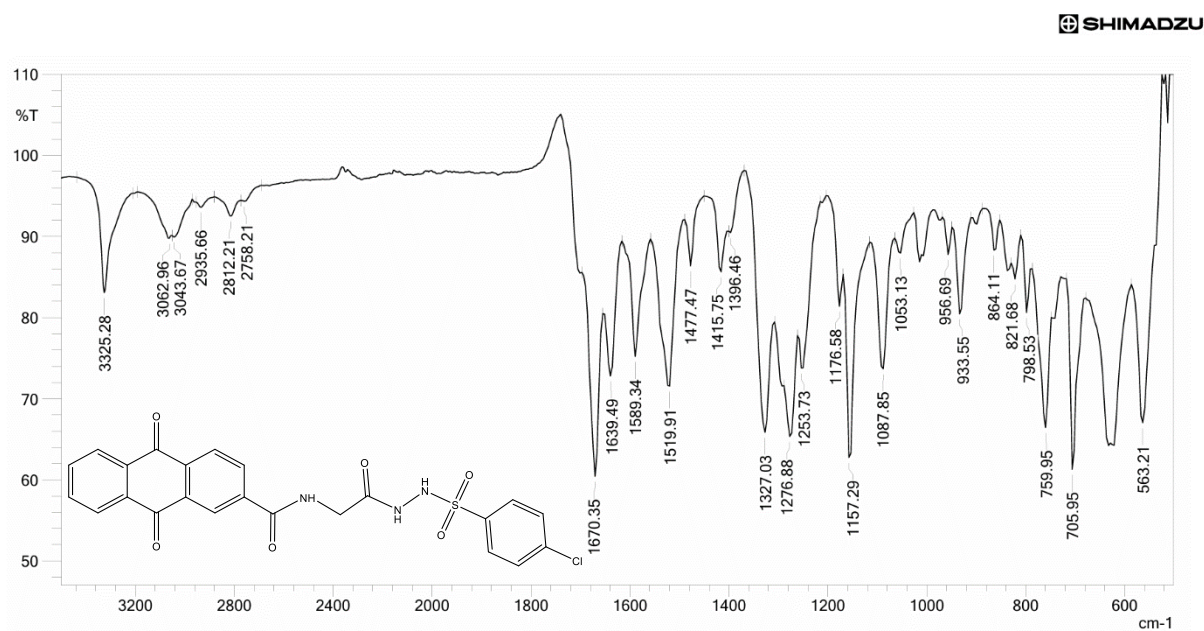
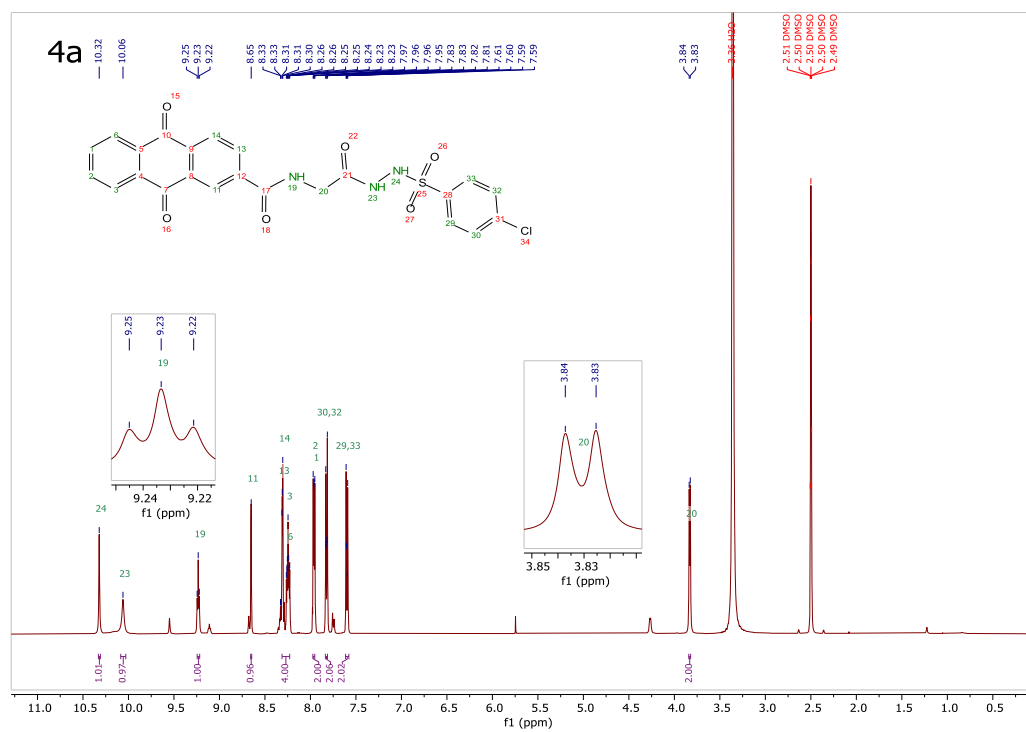
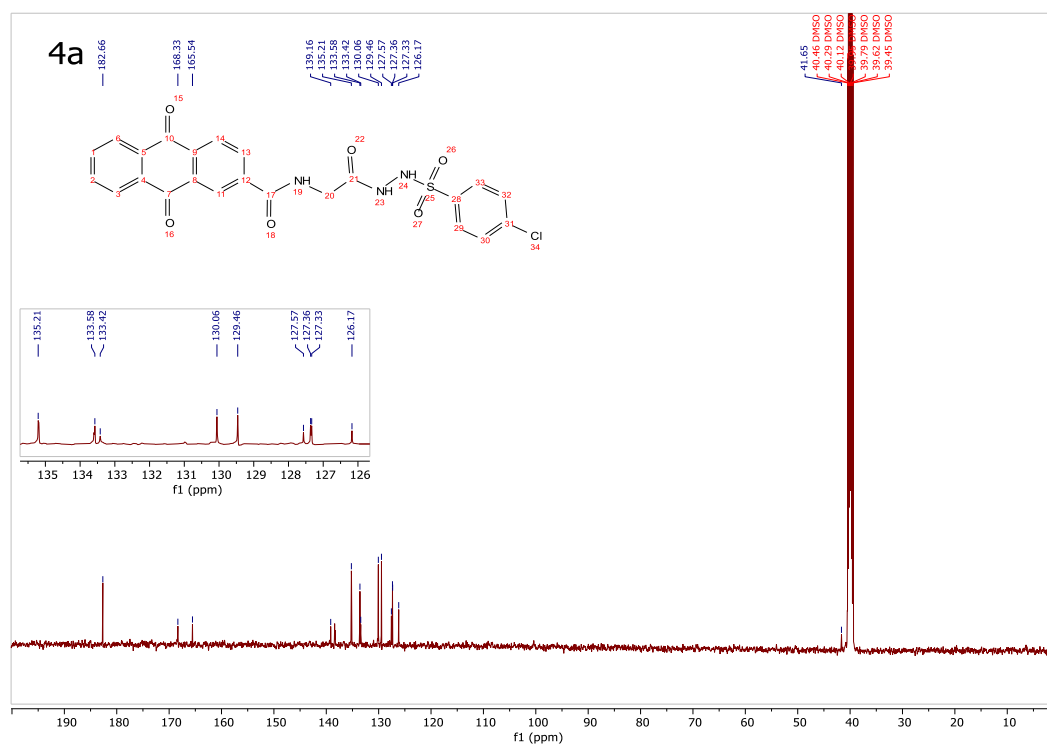


Fig. (S13). FT-IR spectrum of **4a**.

Fig. (S14). $^1\text{H-NMR}$ spectrum of **4a**.Fig. (S15). $^{13}\text{C-NMR}$ spectrum of **4a**.

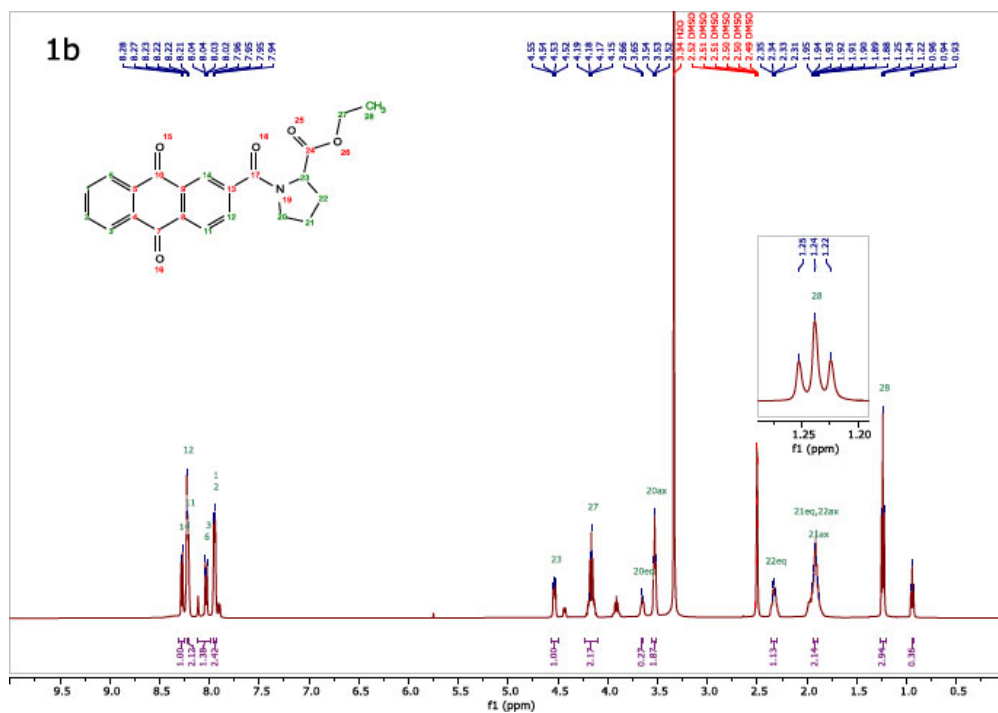


Fig. (S20). ¹H-NMR spectrum of **1b**.

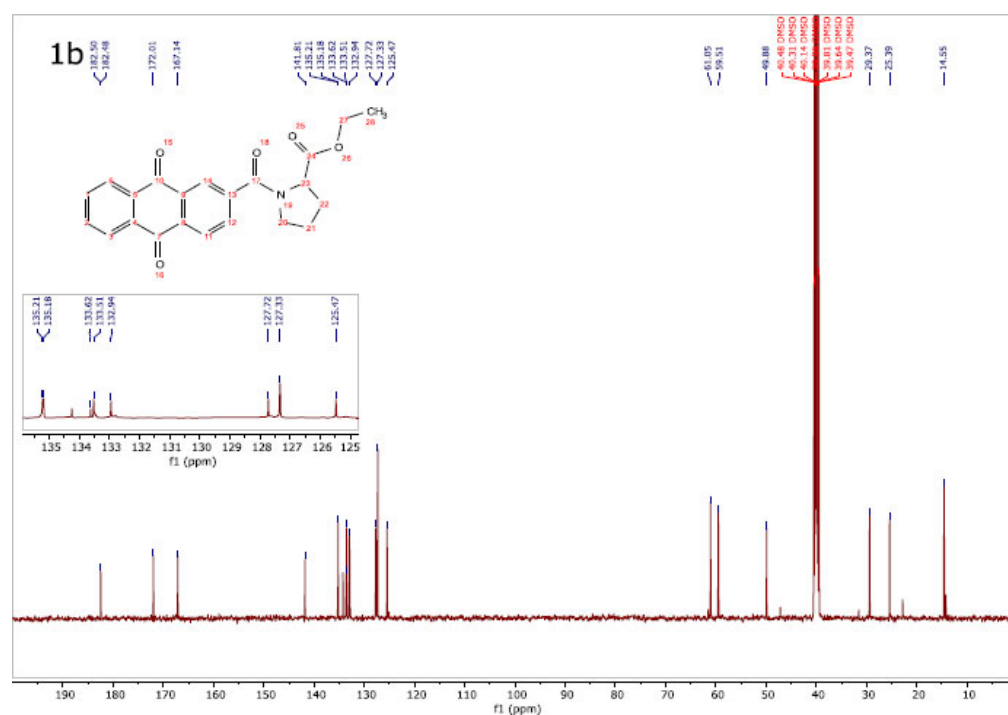


Fig. (S21). ¹³C-NMR spectrum of **1b**.

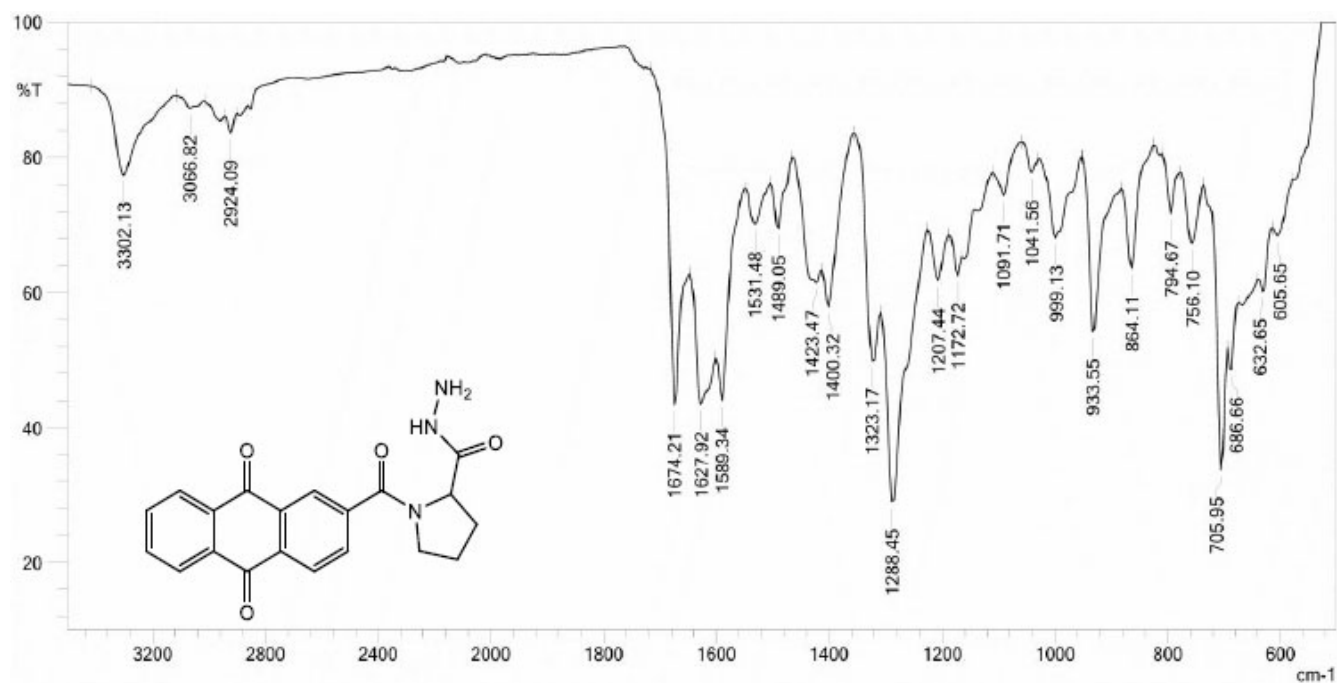
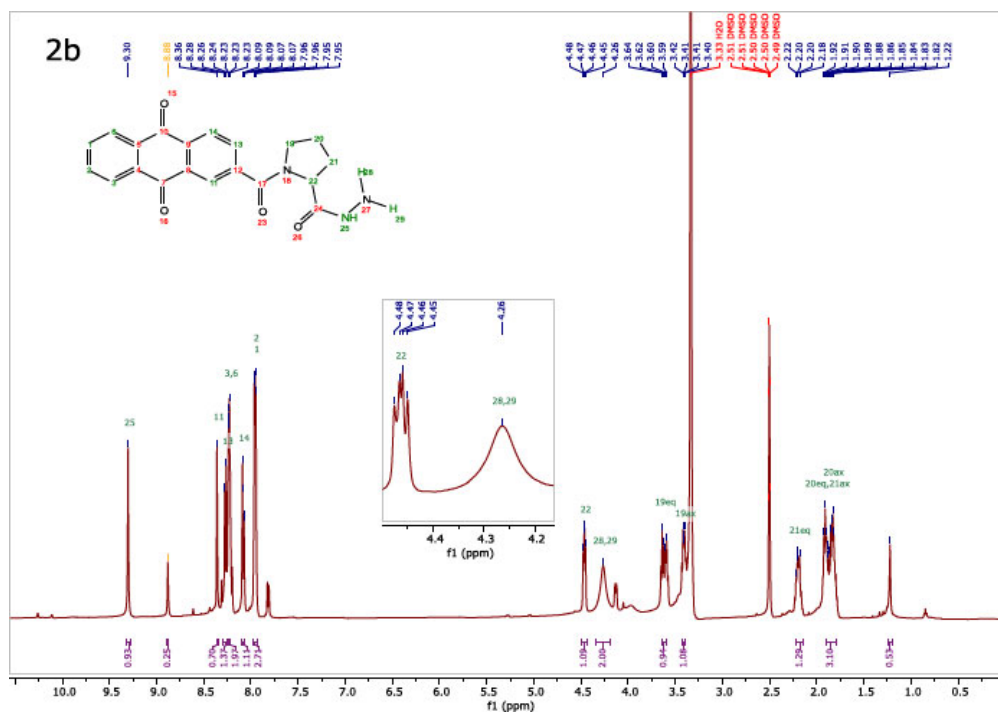


Fig. (S22). FT-IR spectrum of 2b.

Fig. (S23). ¹H-NMR spectrum of 2b.

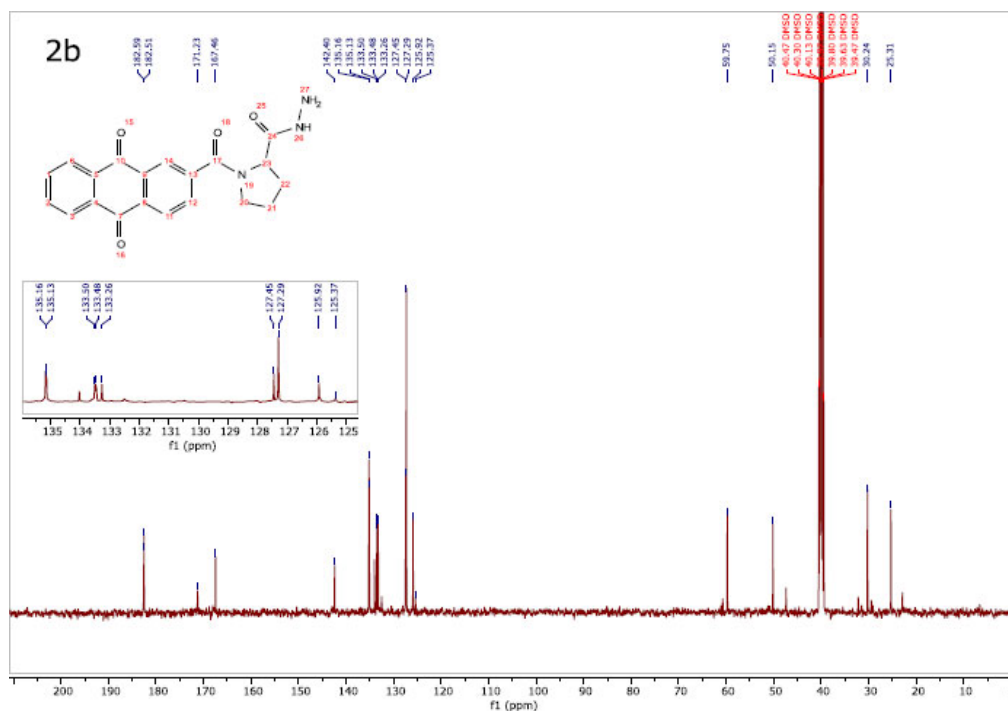


Fig. (S24). ¹³C-NMR spectrum of 2b.

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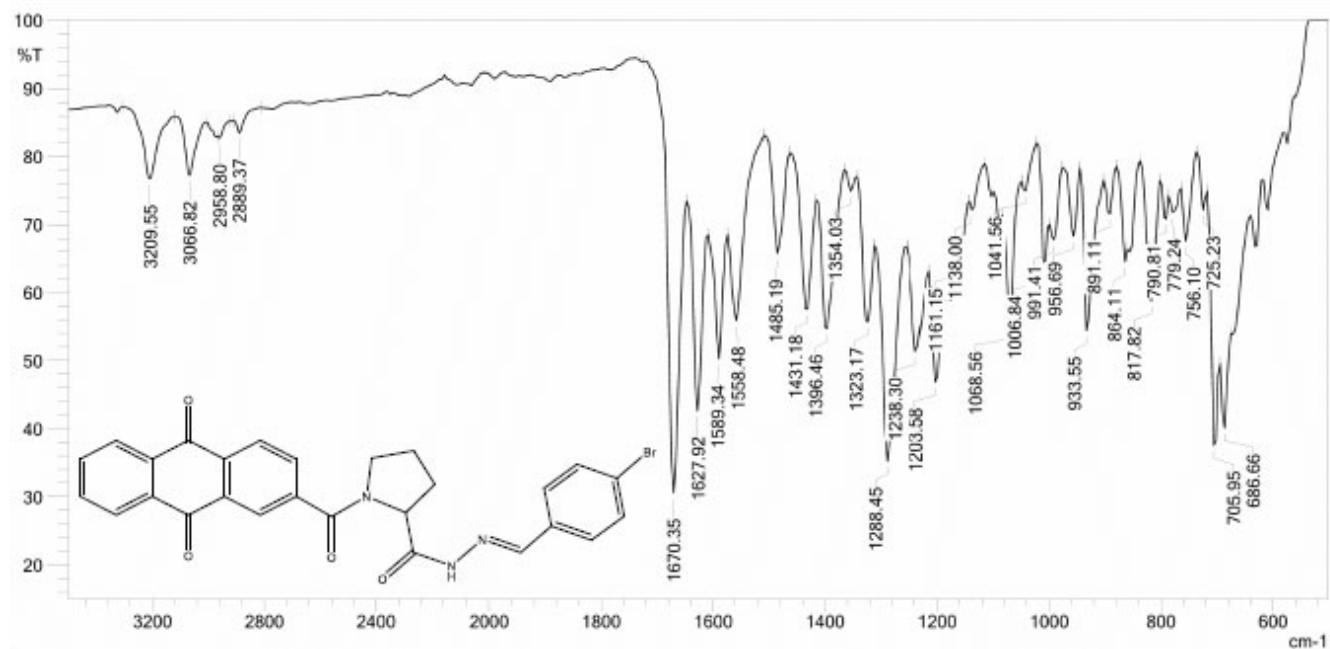
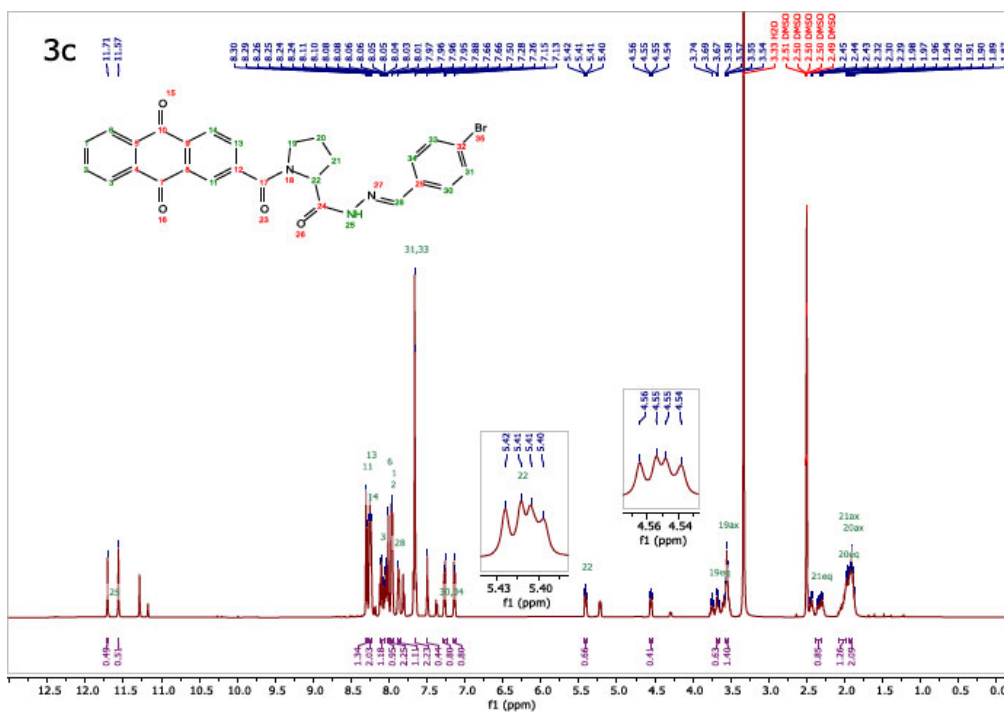
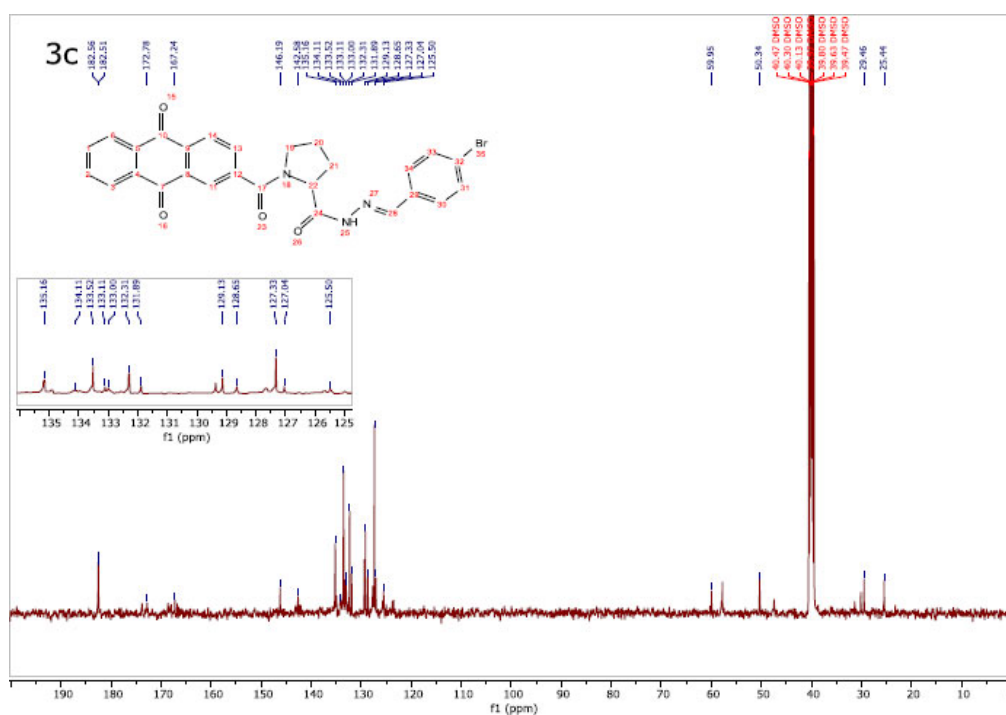


Fig. (S25). FT-IR spectrum of 3c.

Fig. (S26). ¹H-NMR spectrum of **3c**.Fig. (S27). ¹³C-NMR spectrum of **3c**.

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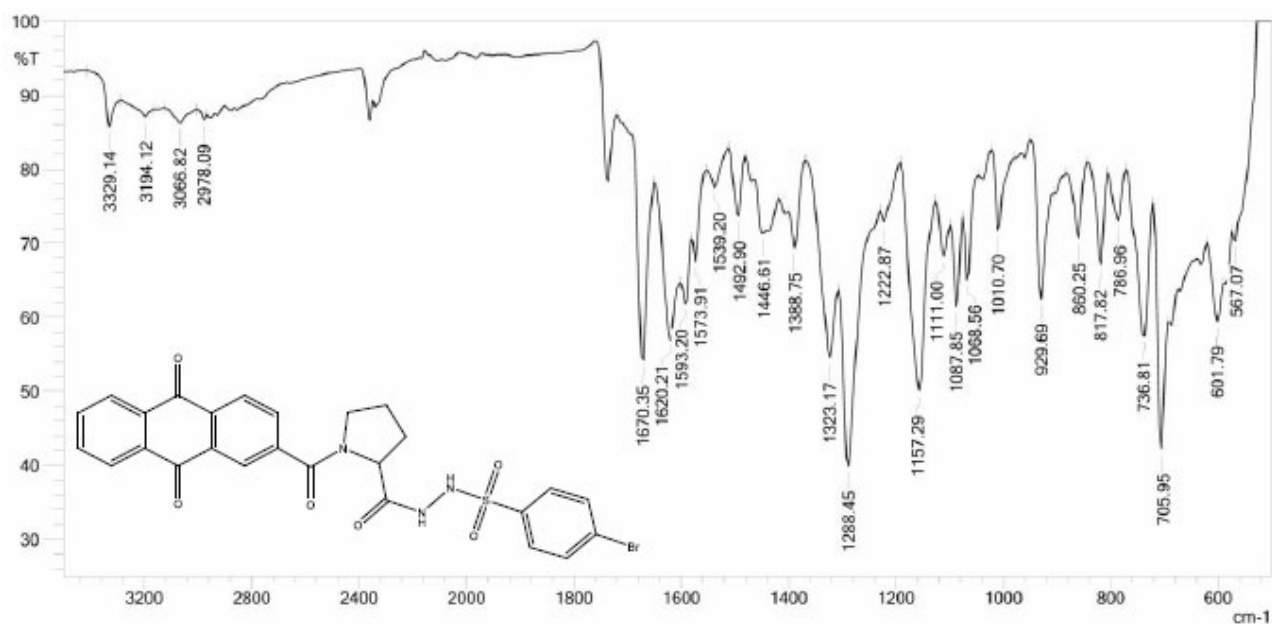
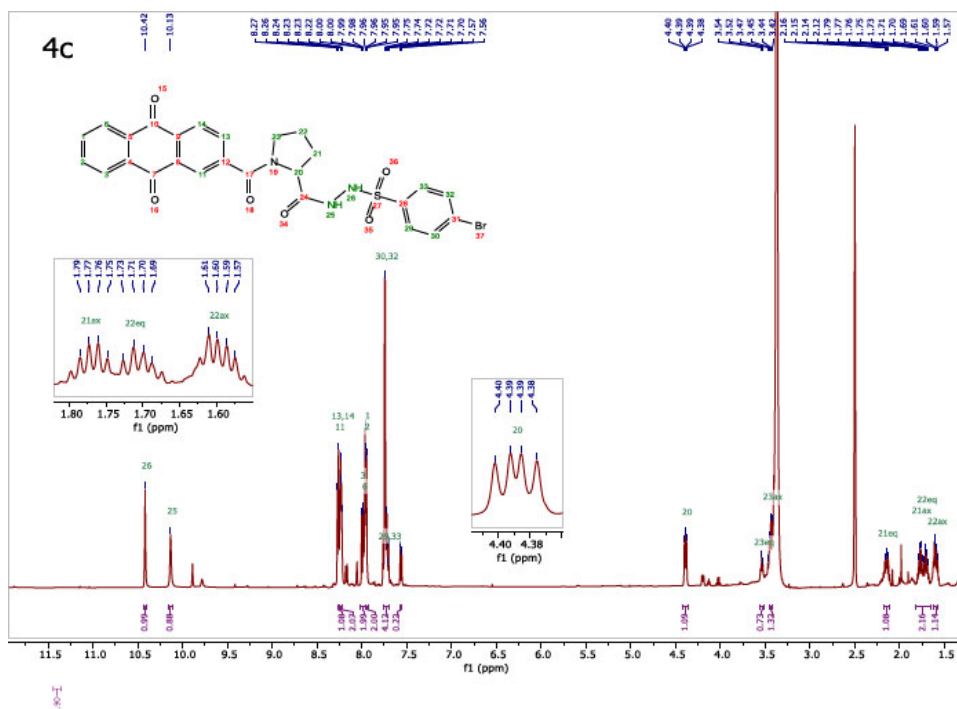


Fig. (S28). FT-IR spectrum of 4c.

Fig. (S29). ¹H-NMR spectrum of 4c.

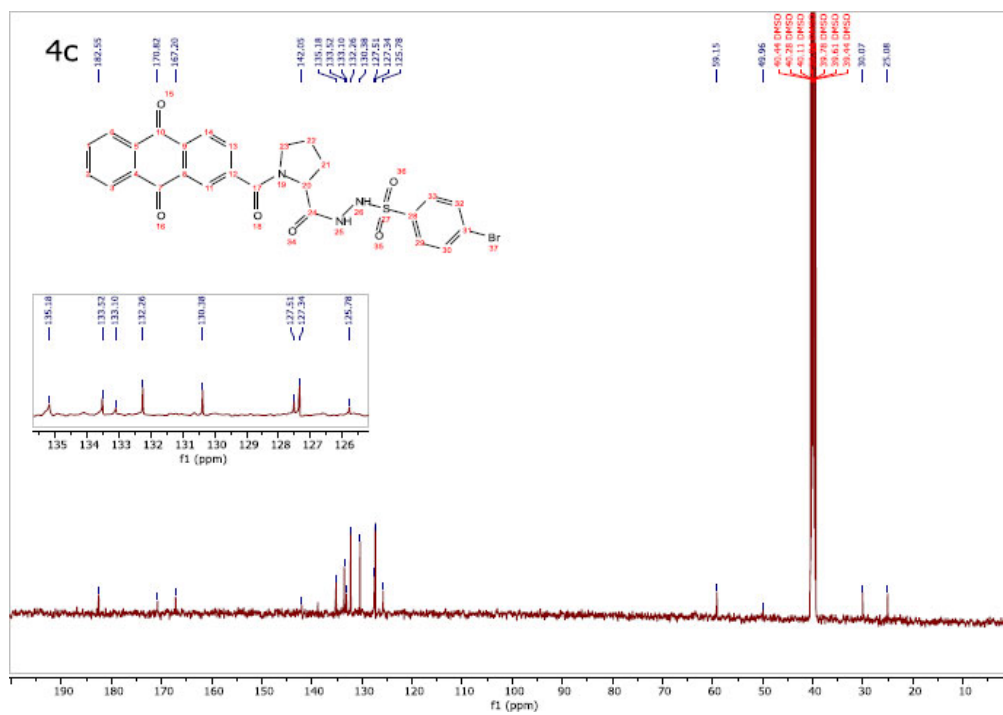


Fig. (S30). ^{13}C -NMR spectrum of **4c**.