

## Supplementary Material

### Synthesis of a novel thio-anthraquinone derivative-based tissue dye

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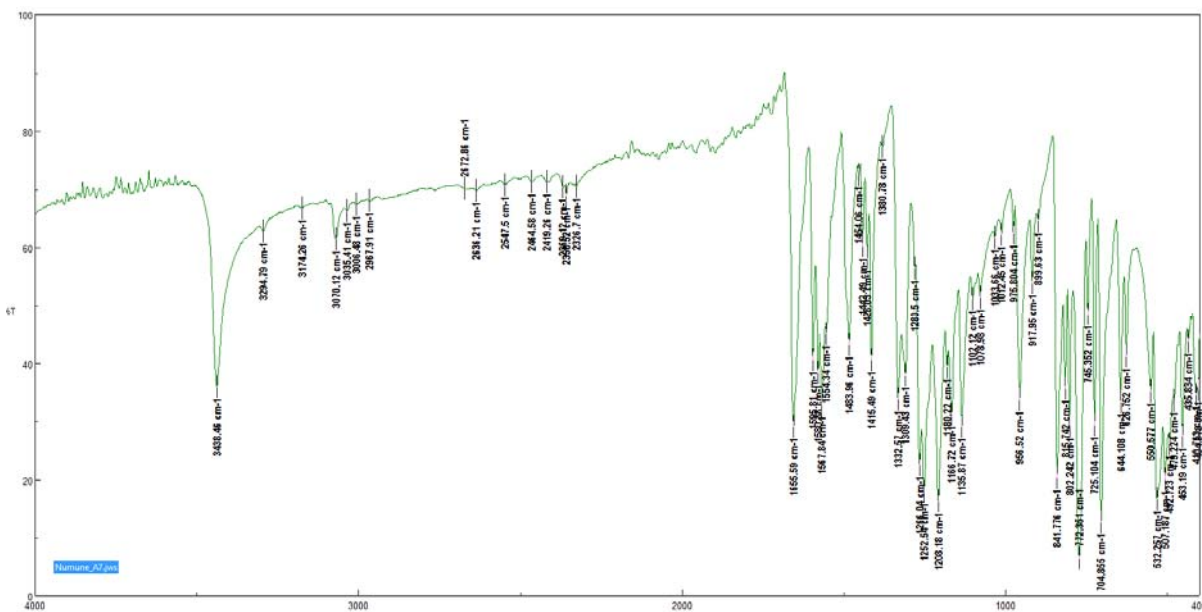
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**Fig. S1.** FT-IR spectrum of thioanthraquinone analogue (3) via ATR method.

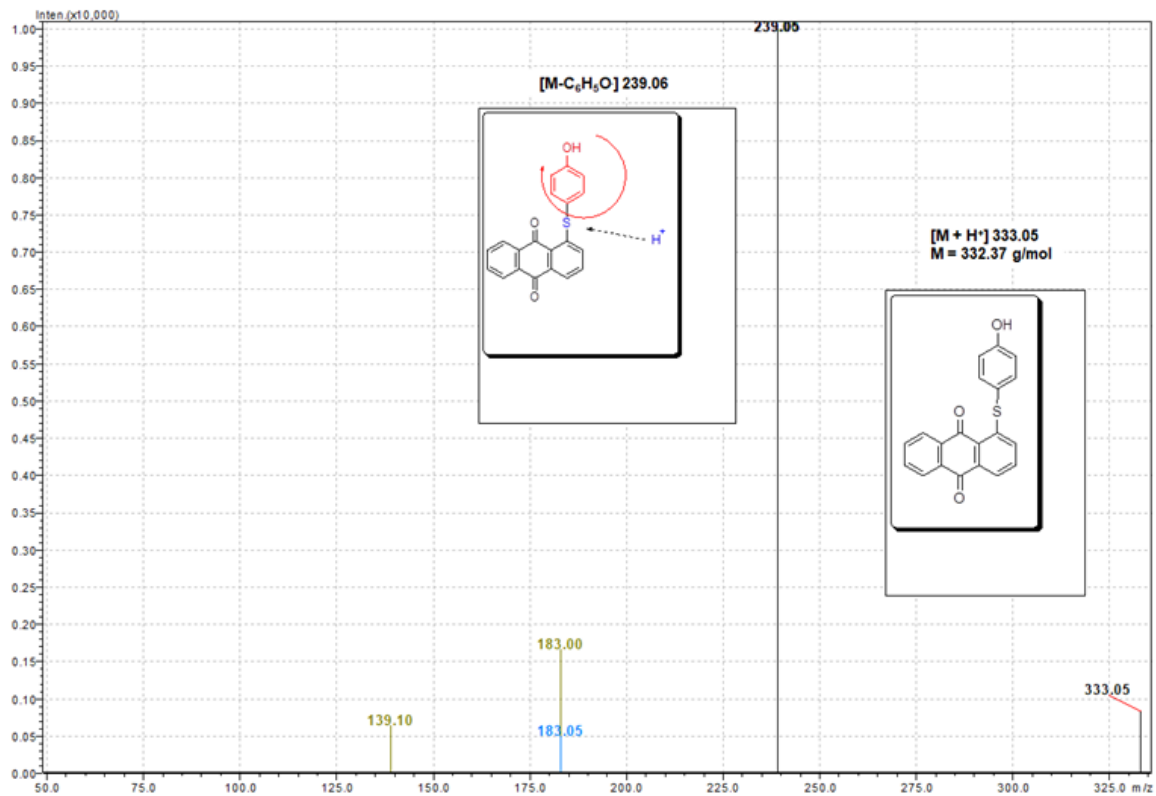
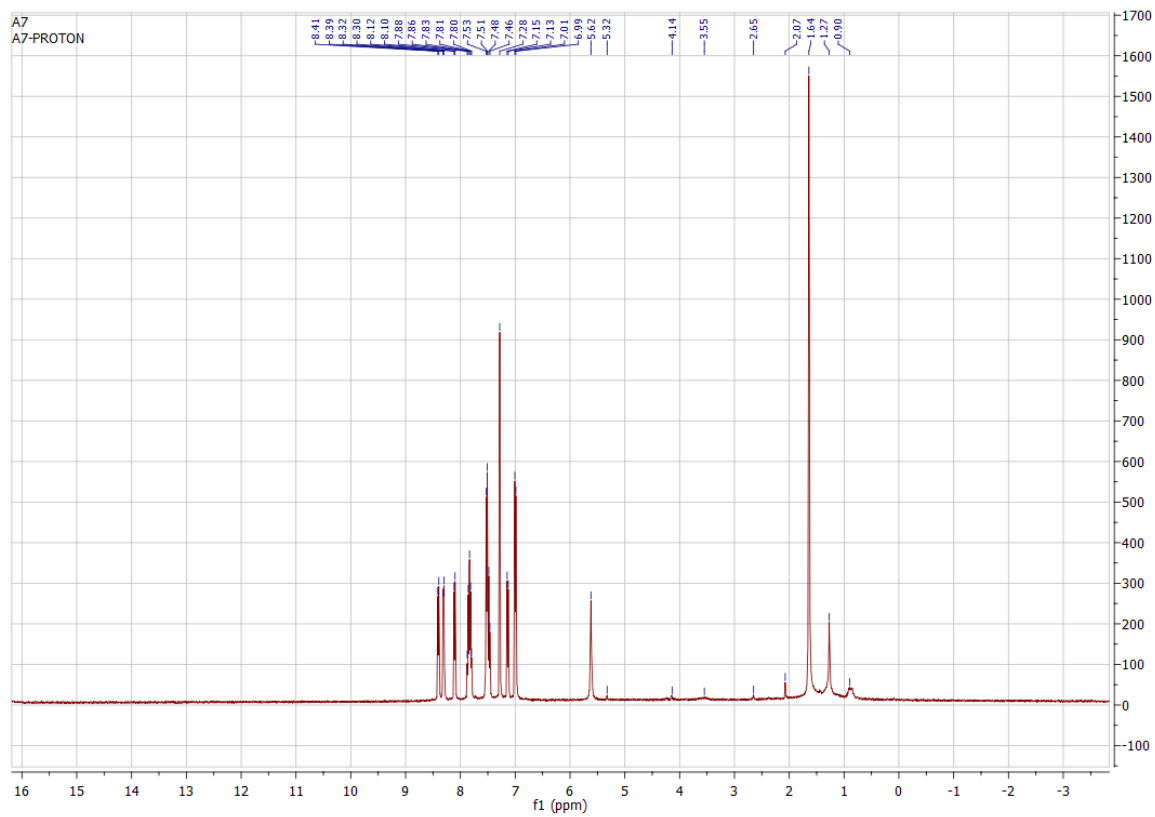
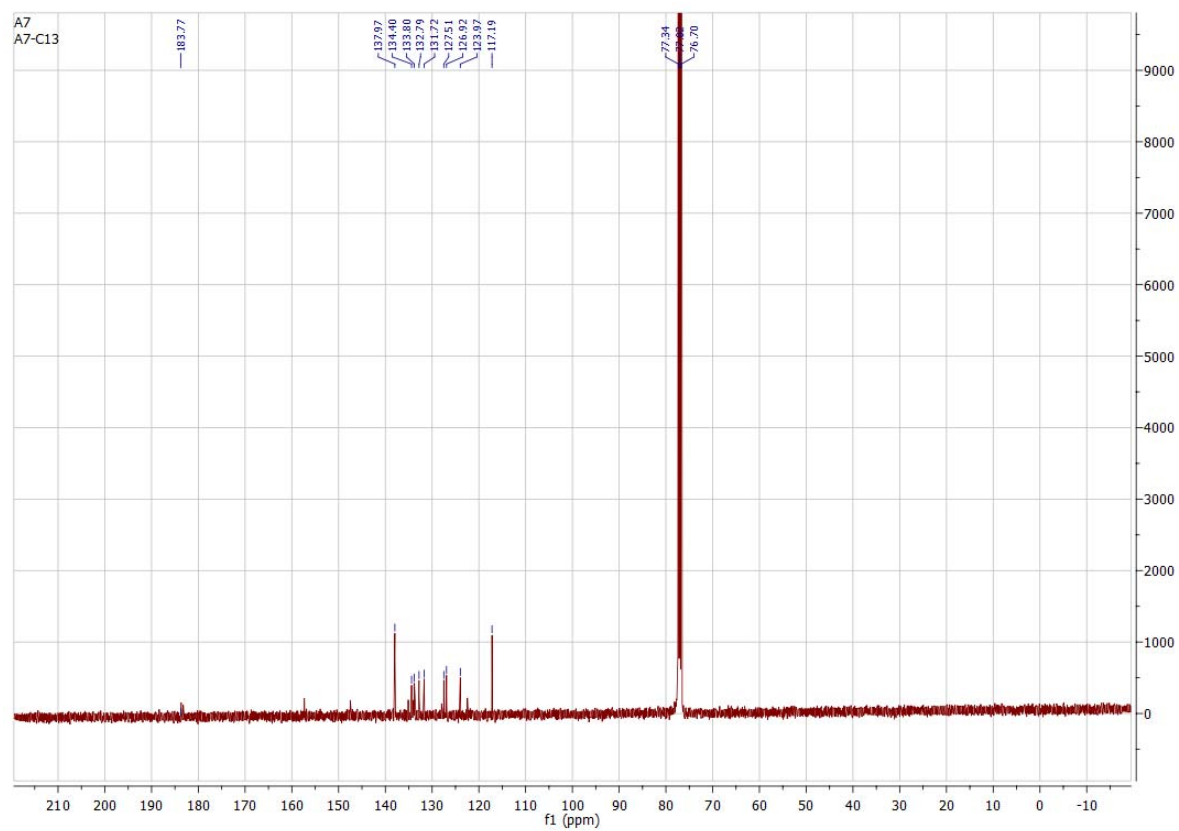


Fig. S2. MS fragmentation of thioanthraquinone analogue (3).



**Fig. S3.** Proton NMR spectrum of thioanthraquinone analogue (**3**).



**Fig. S4.** Carbon NMR spectrum of thioanthraquinone analogue (**3**).