

Hydrophobic Rose Bengal derivatives exhibit submicromolar-to-subnanomolar activity against enveloped viruses

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Supplementary information

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Table S1. Antiviral activity of RB and 2a-e against non-enveloped viruses and cytotoxicity for RD cells

Cmpd	EC ₅₀ , μM (M \pm SD) ^a			CC ₅₀ , μM (M \pm SD) ^b
	CVA16	E13	PV1	RD cells
1	>100	>100	>100	43 \pm 10
2a	>100	>100	>100	21.3 \pm 5.2
2b	>100	>100	>100	21.3 \pm 5.2
2c	>100	>100	>100	21.3 \pm 5.2
2d	>100	>100	>100	10.7 \pm 2.6
2e	>100	>100	>100	21.3 \pm 5.2
NHC	50 \pm 18	17 \pm 8	25 \pm 10	>100

^a Effective concentration required to inhibit virus-induced cytopathic effect by 50%

^b Compound concentration required to induce a reduction of fluorescence by 50%

Figure S1. Fluorescence spectra of SOSG during LED irradiation (520 nm)

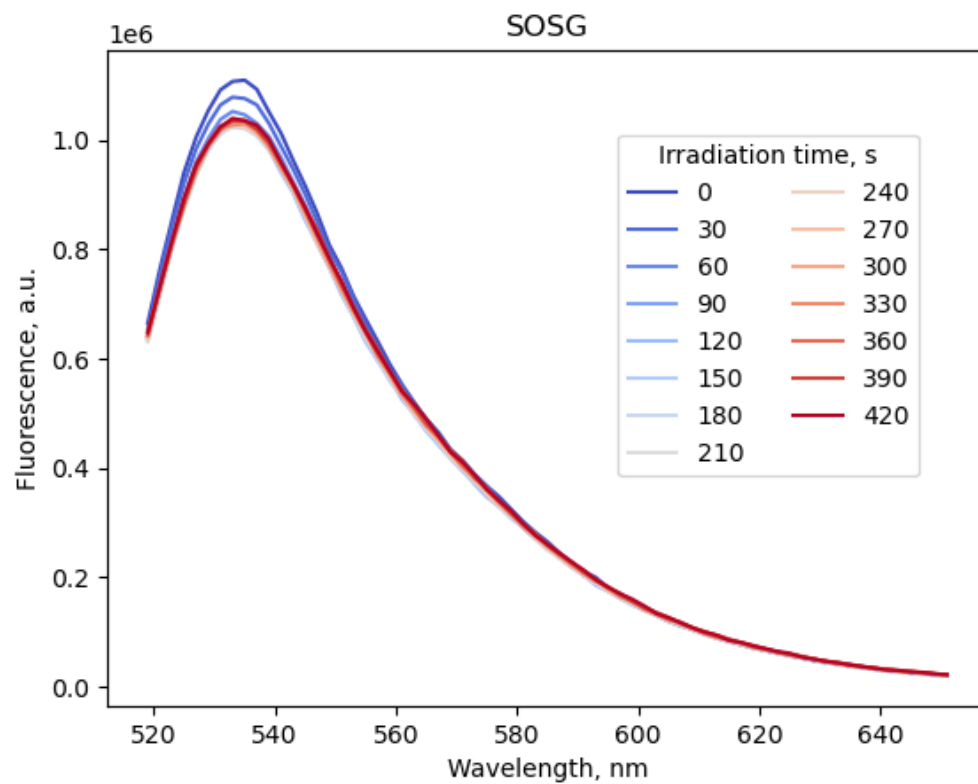


Figure S2. Absorption spectra of RB 1 (an additional 10-fold dilution) and its derivatives 2a-e in PBS containing 1% DMSO, used for solubility evaluation

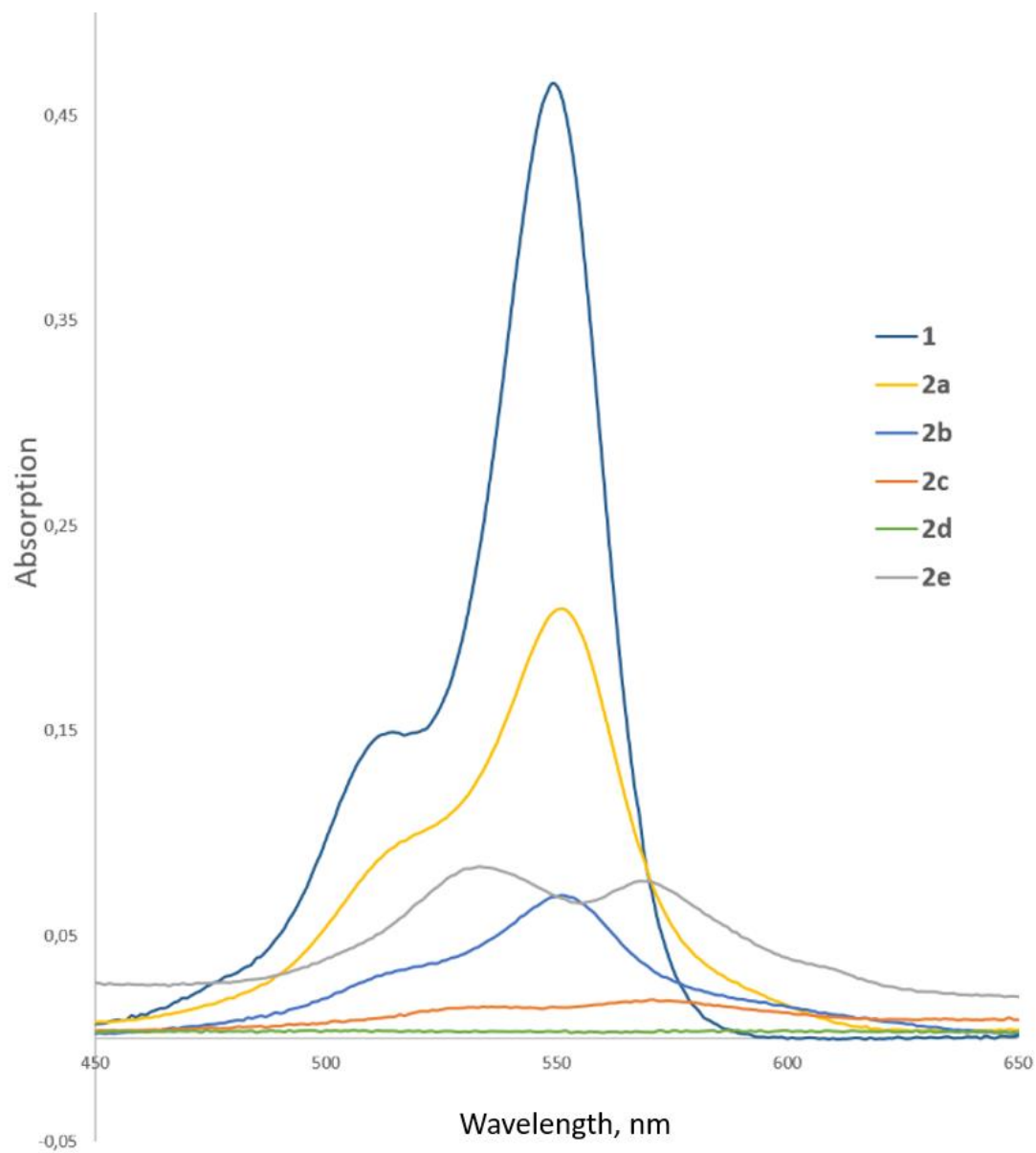
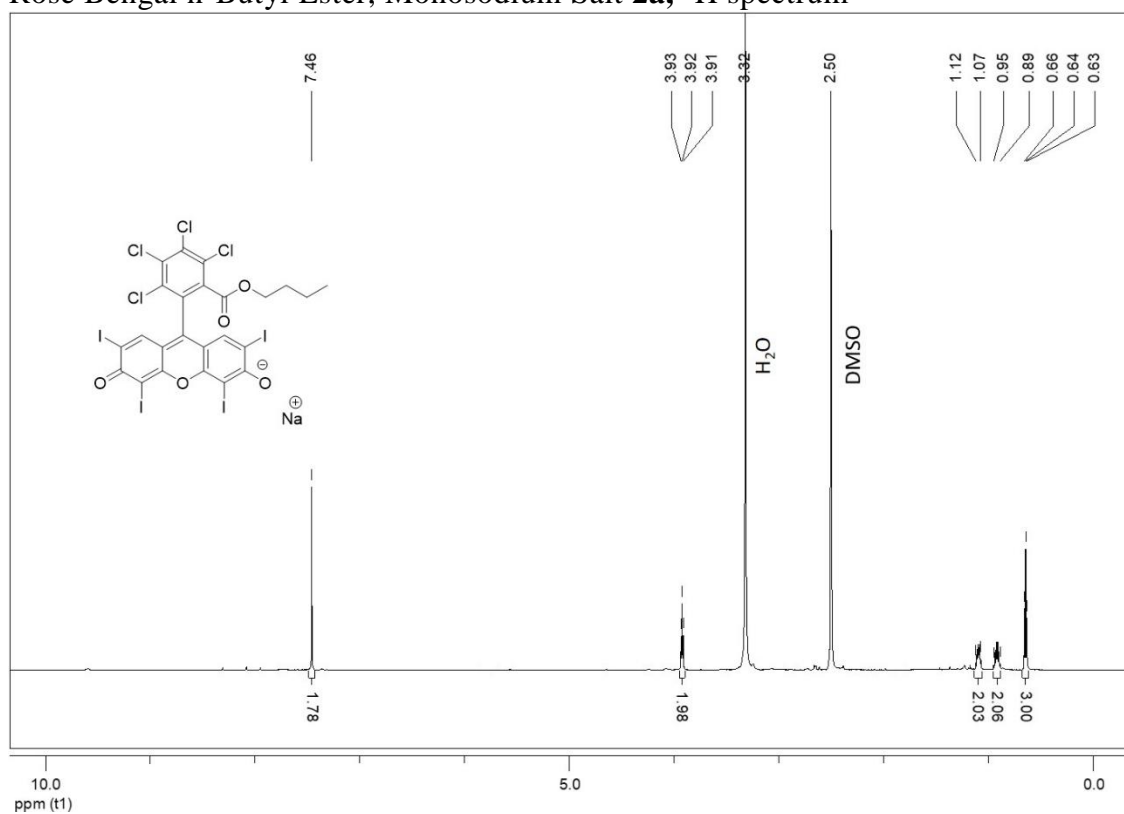
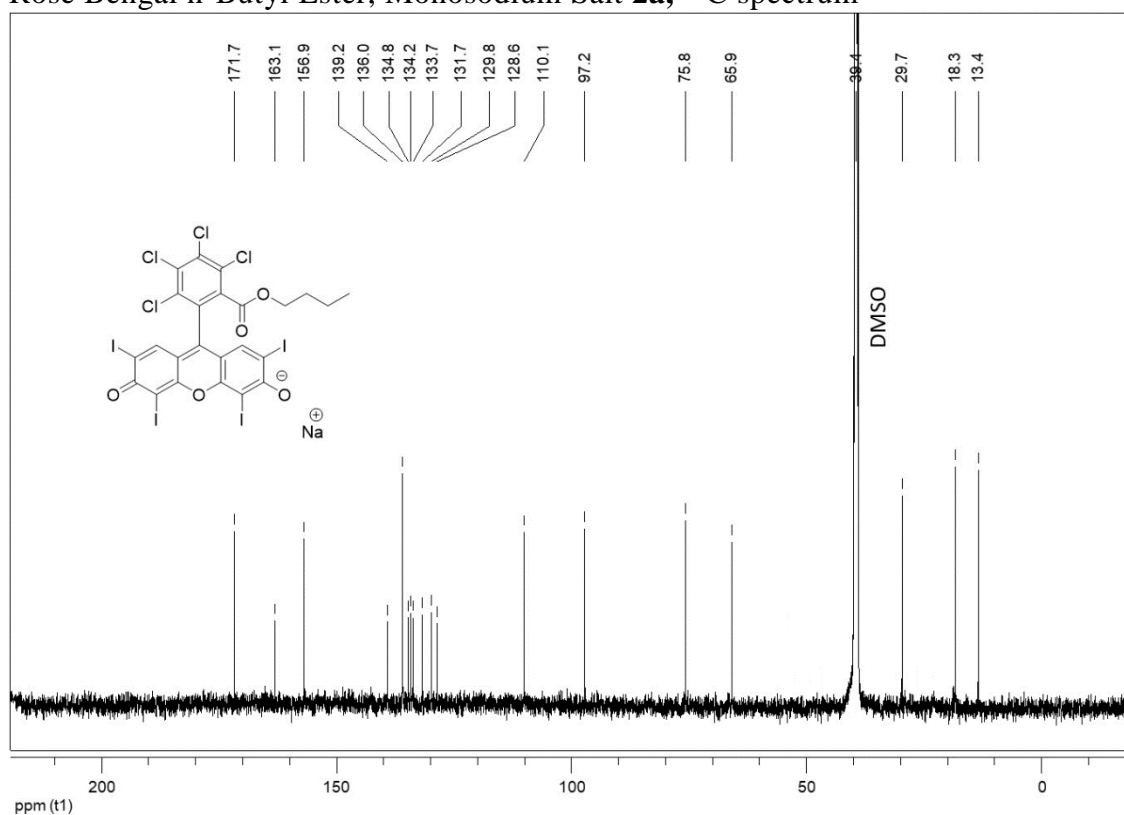


Figure S3. NMR spectra.

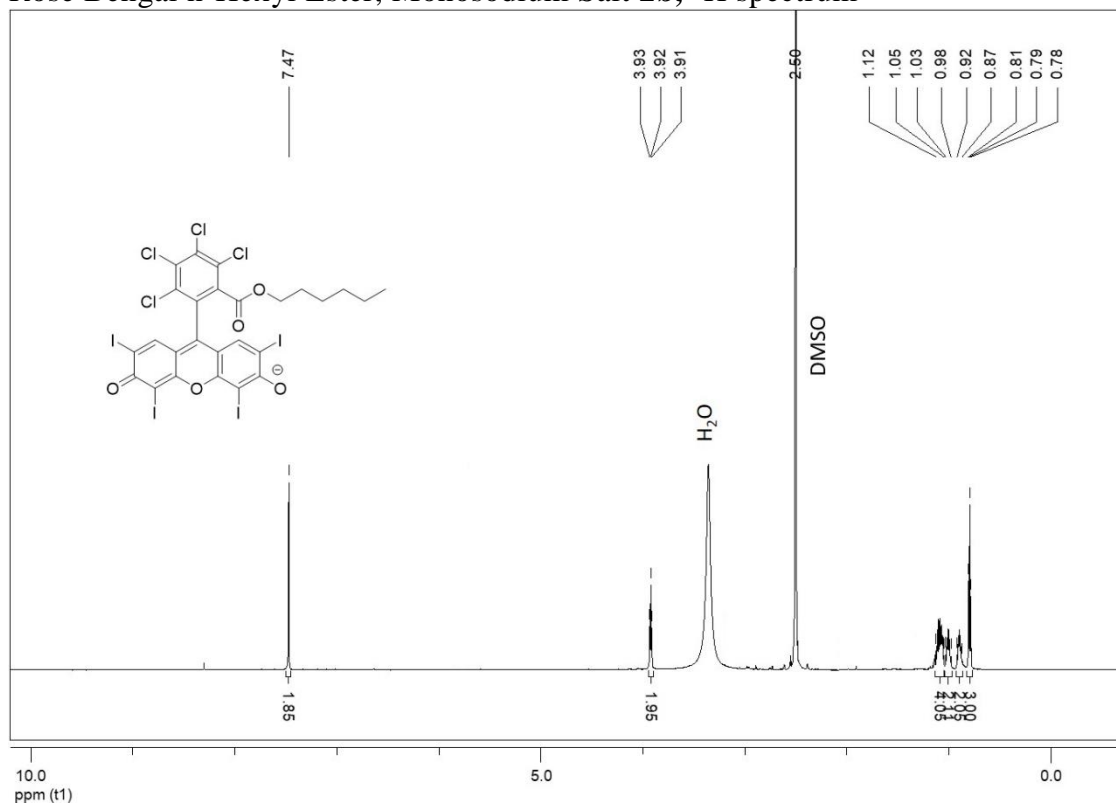
Rose Bengal n-Butyl Ester, Monosodium Salt **2a**, ^1H spectrum



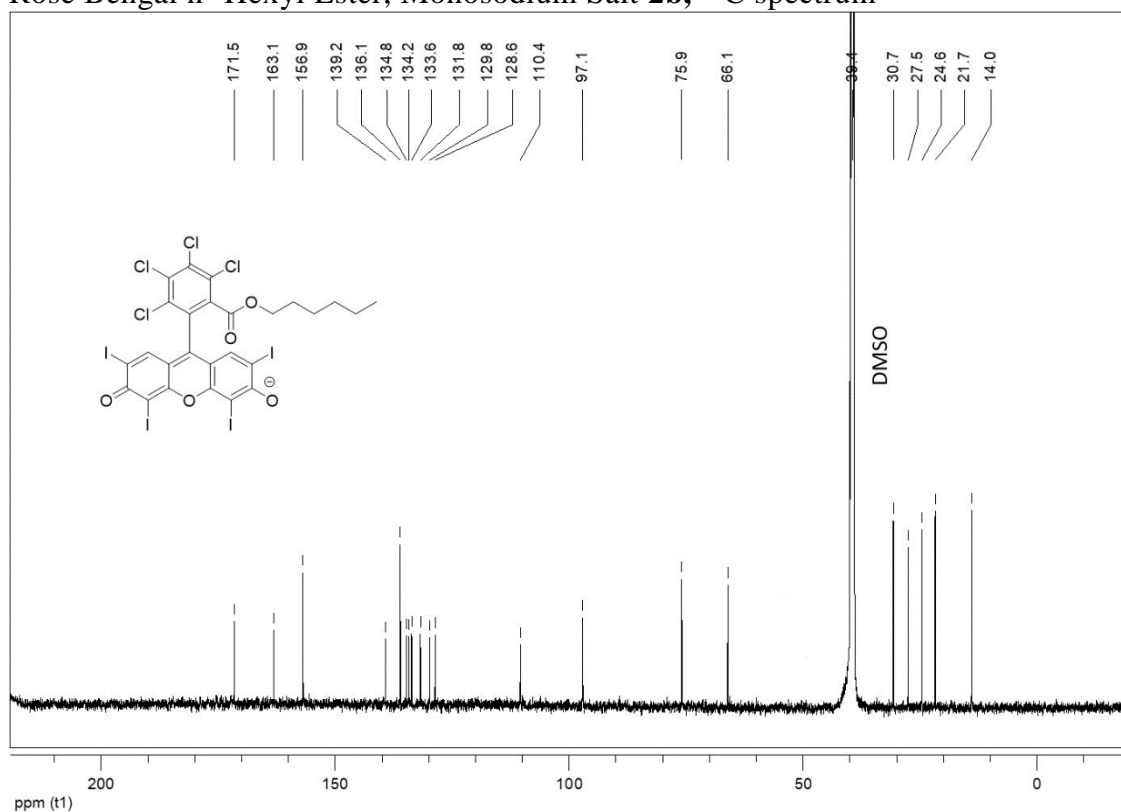
Rose Bengal n-Butyl Ester, Monosodium Salt **2a**, ^{13}C spectrum



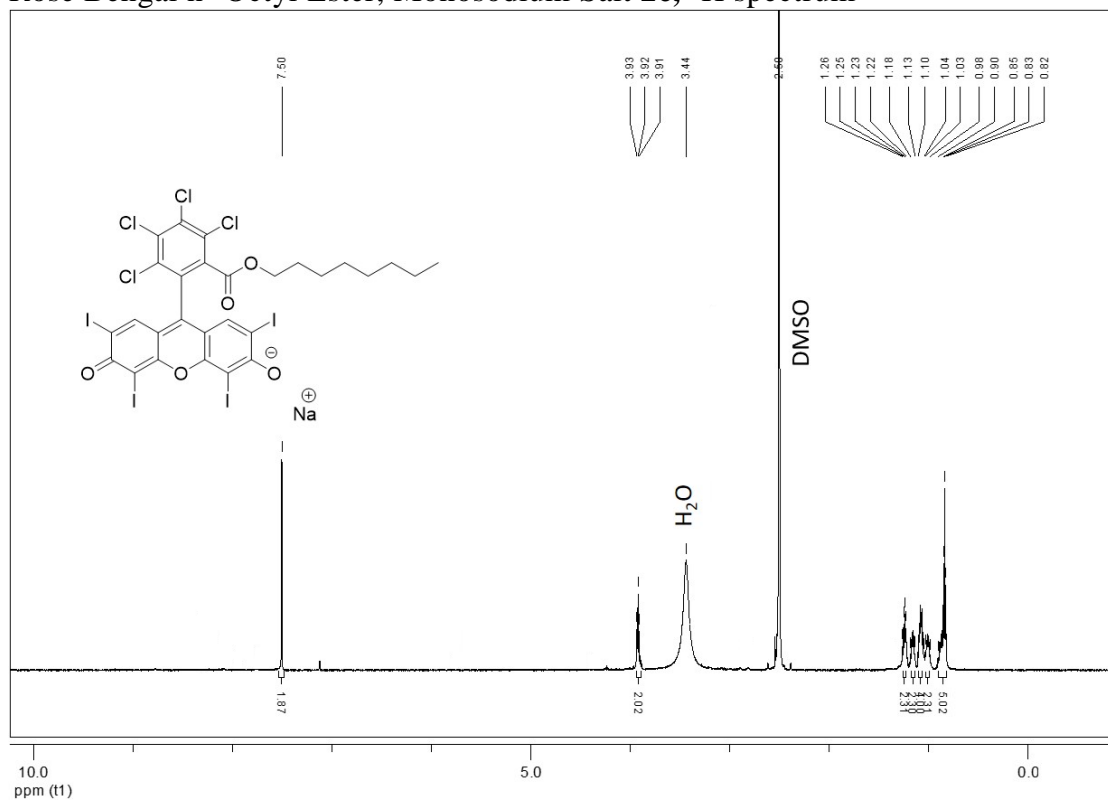
Rose Bengal n-Hexyl Ester, Monosodium Salt **2b**, ^1H spectrum



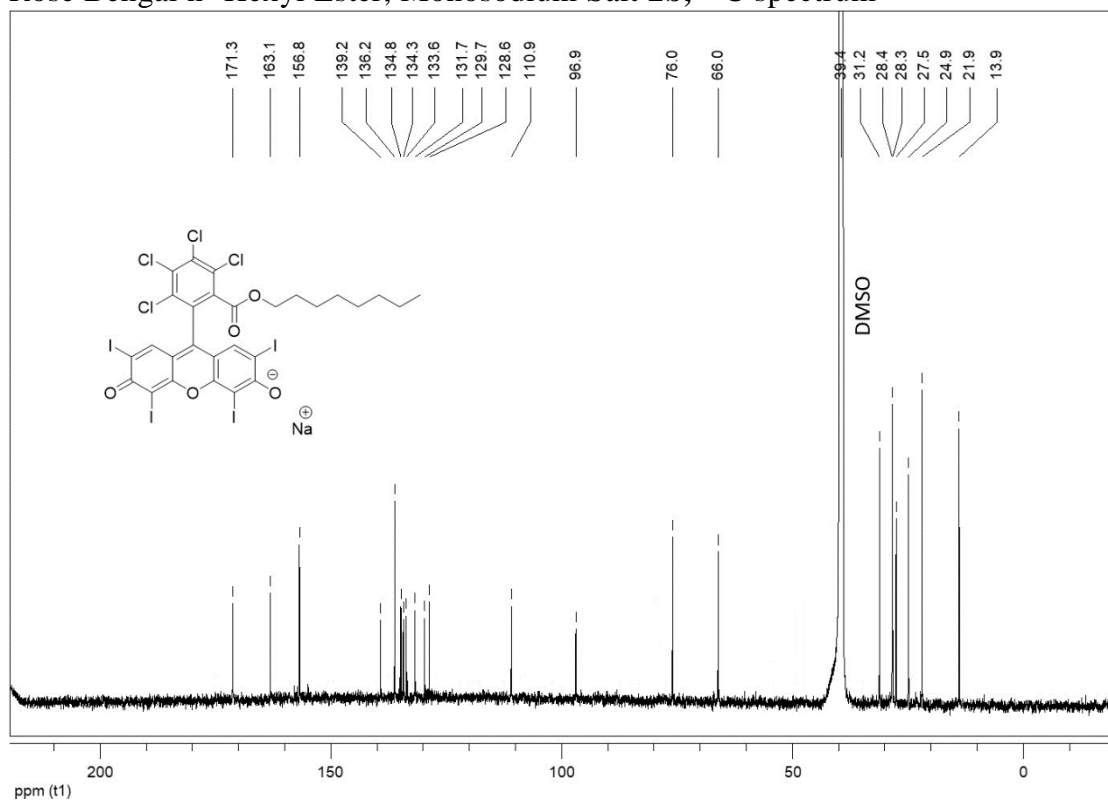
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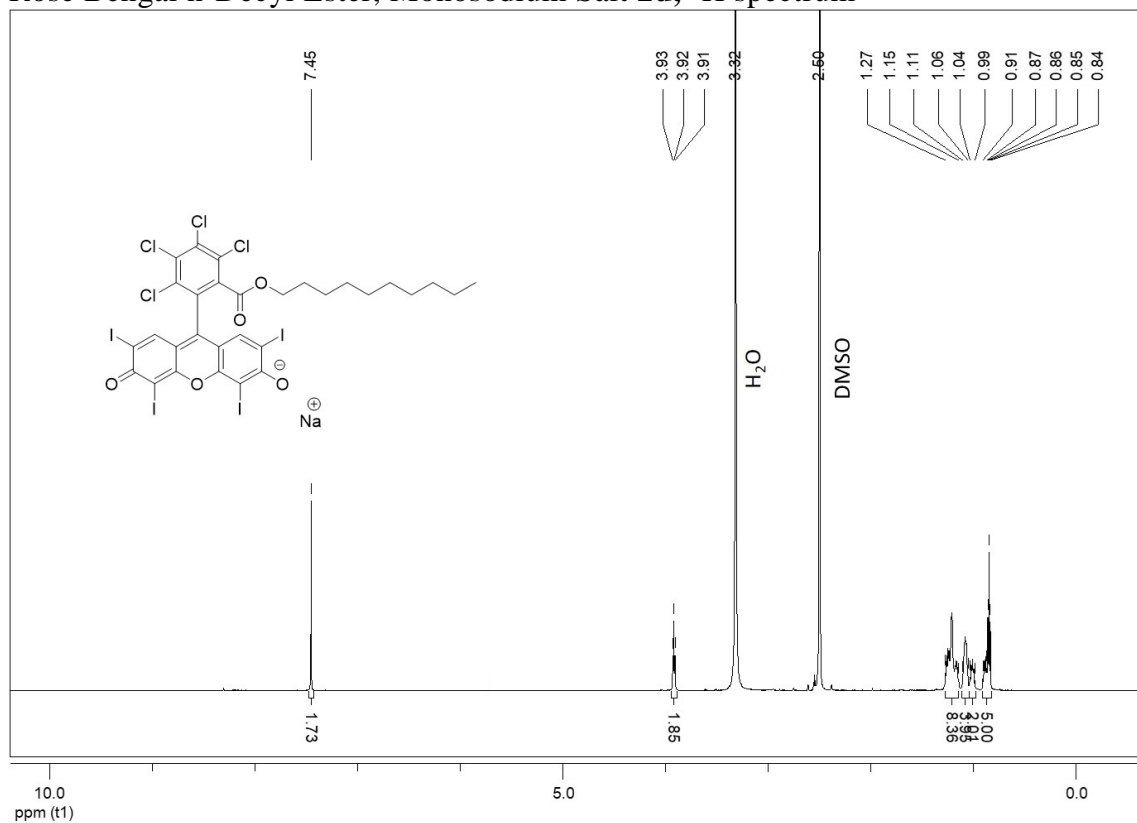
Rose Bengal n- Octyl Ester, Monosodium Salt **2c**, ^1H spectrum



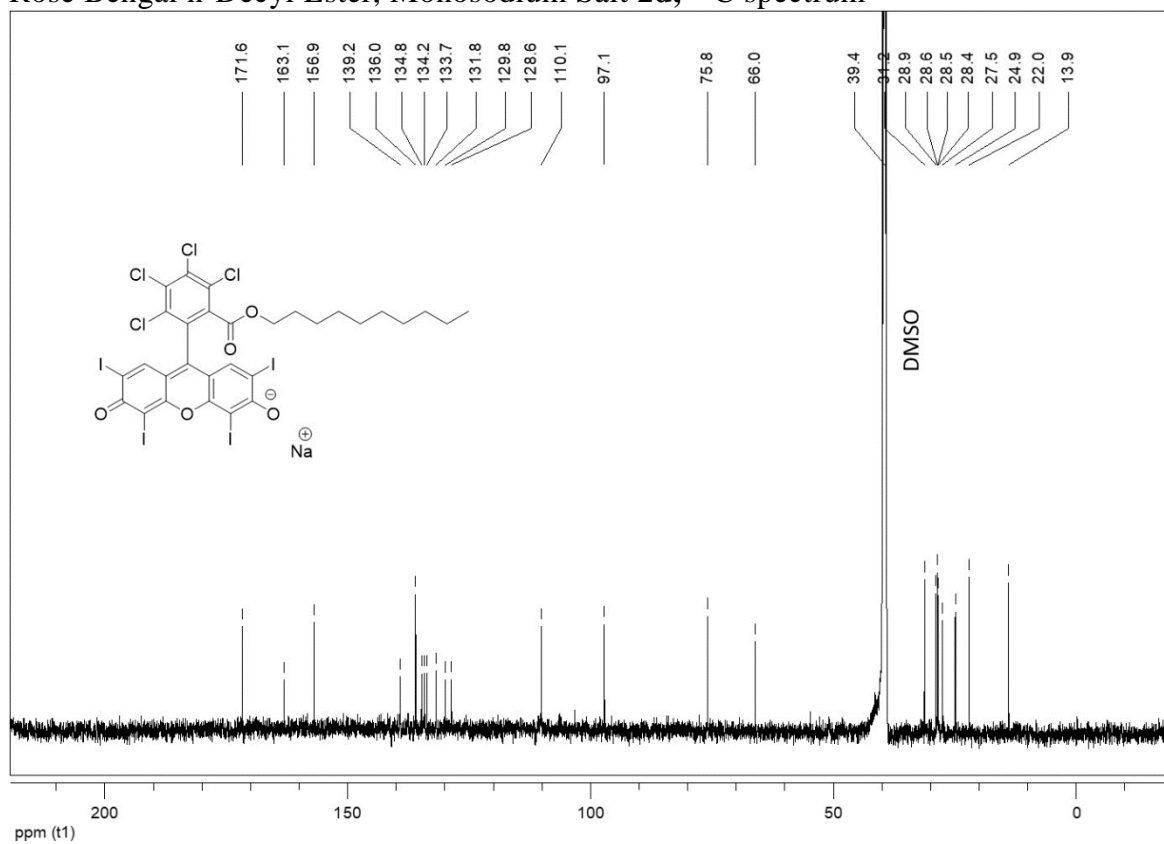
Rose Bengal n- Hexyl Ester, Monosodium Salt **2b**, ^{13}C spectrum



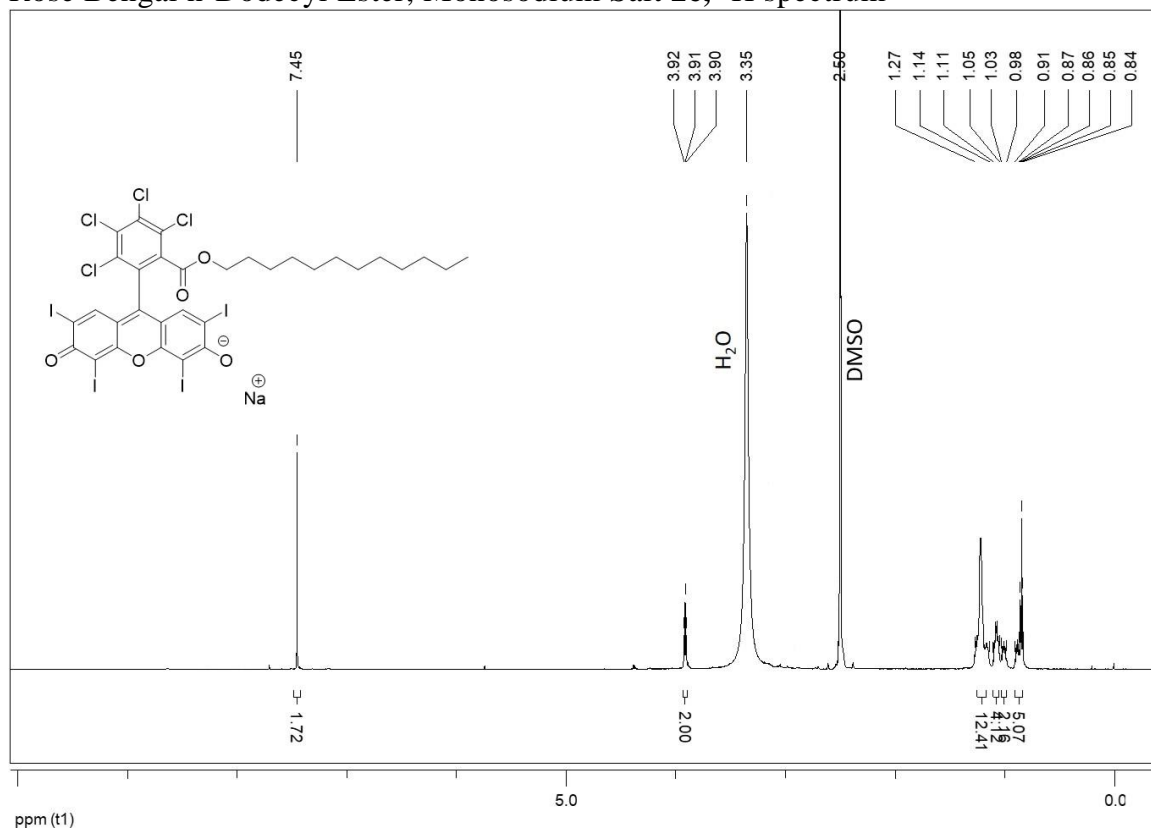
Rose Bengal n-Decyl Ester, Monosodium Salt **2d**, ^1H spectrum



Rose Bengal n-Decyl Ester, Monosodium Salt **2d**, ^{13}C spectrum



Rose Bengal n-Dodecyl Ester, Monosodium Salt **2e**, ^1H spectrum



Rose Bengal n-Dodecyl Ester, Monosodium Salt **2e**, ^{13}C spectrum

