

Electronic Supplementary Information

Organic & Biomolecular Chemistry

Design and synthesis of a new dimeric xanthone derivative: enhancement of G-quadruplex selectivity and telomere damage.

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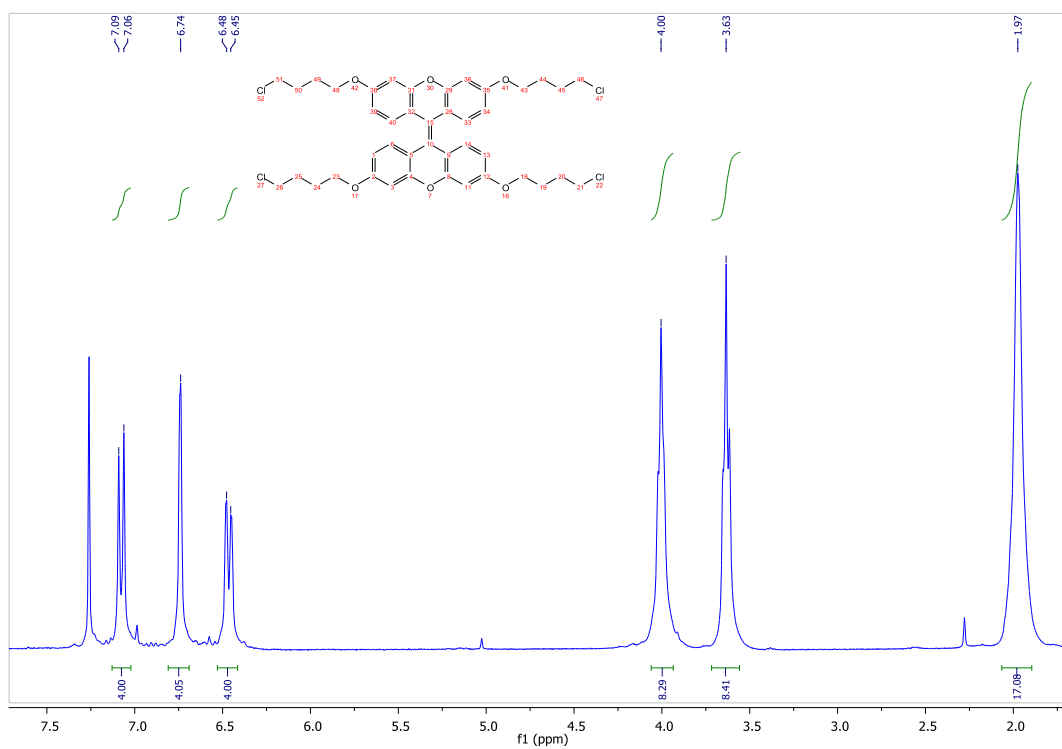


Figure 1: $^3\text{H-NMR}$ of compound **3** (CDCl_3)

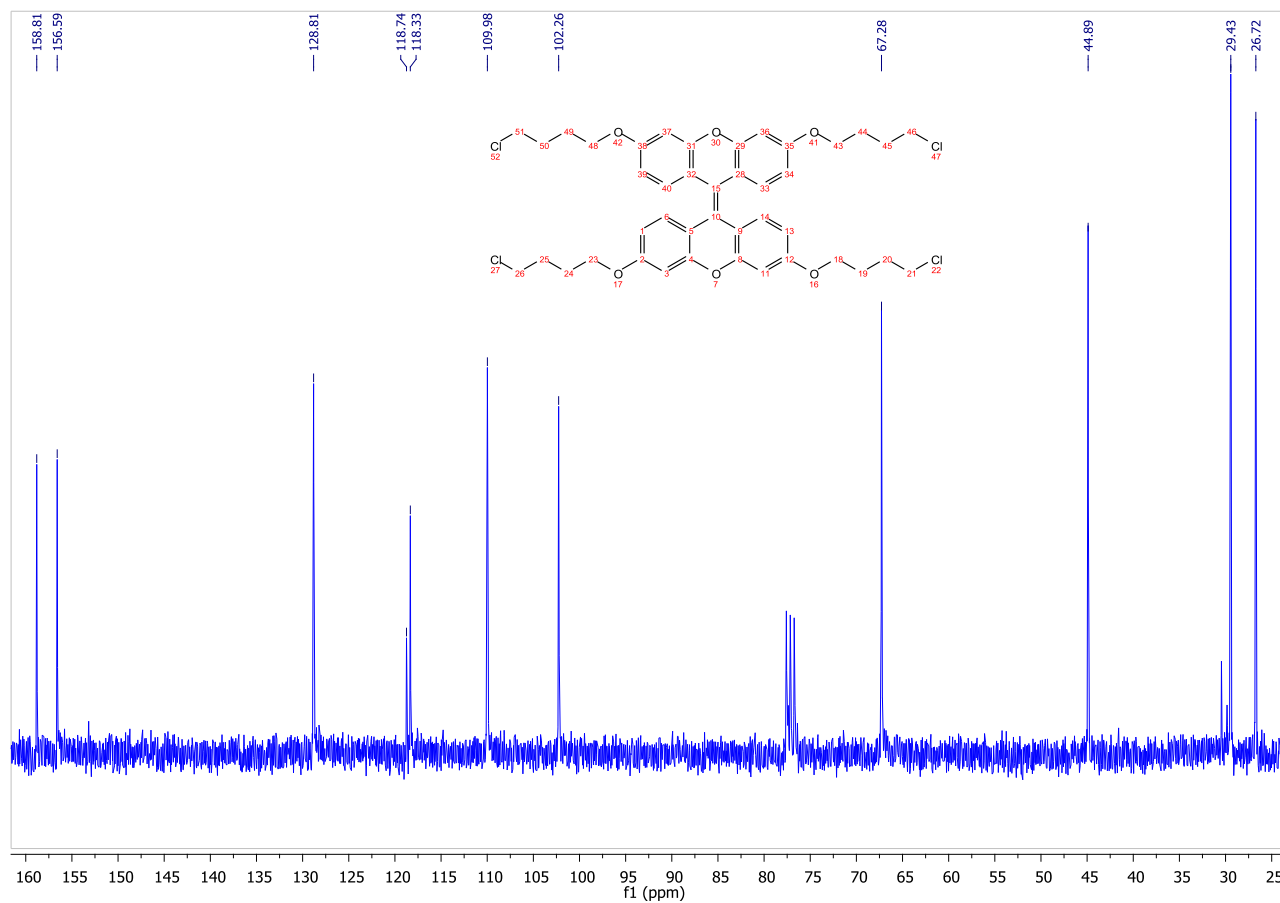


Figure 2: $^{13}\text{C-NMR}$ spectra of compound **3** (CDCl_3)

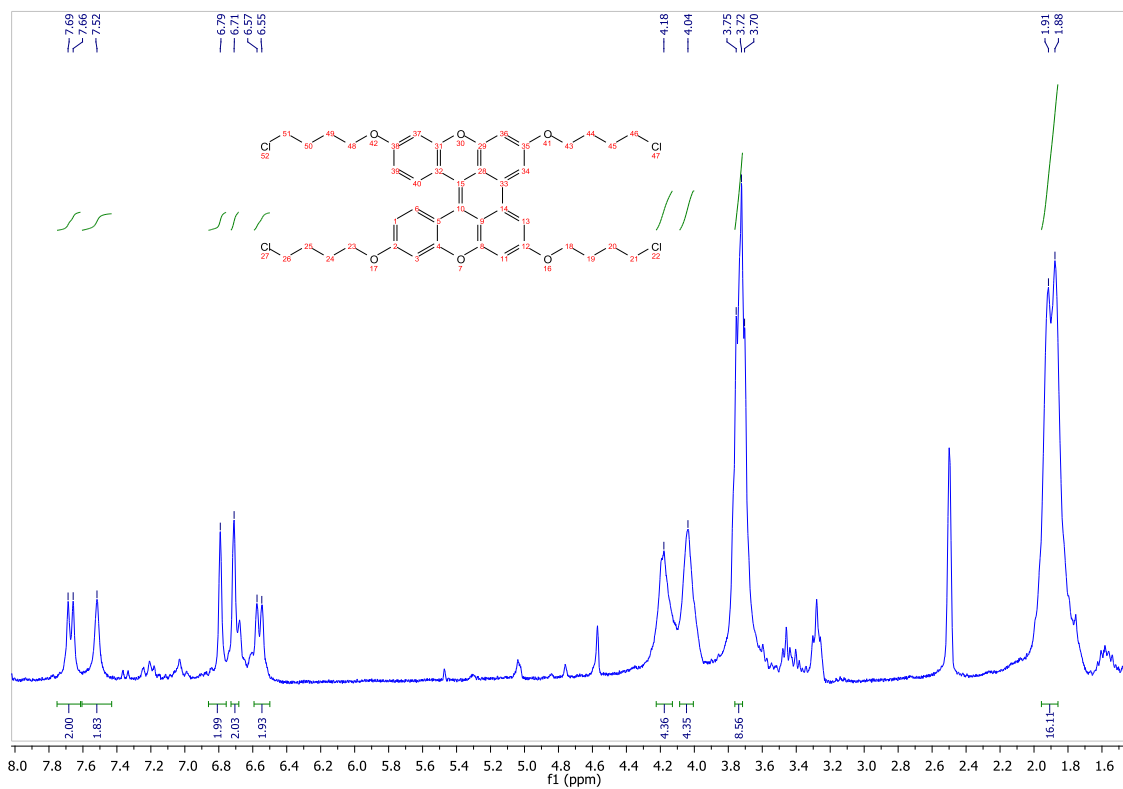


Figure 1: ^1H -NMR of compound **4** (CDCl_3)

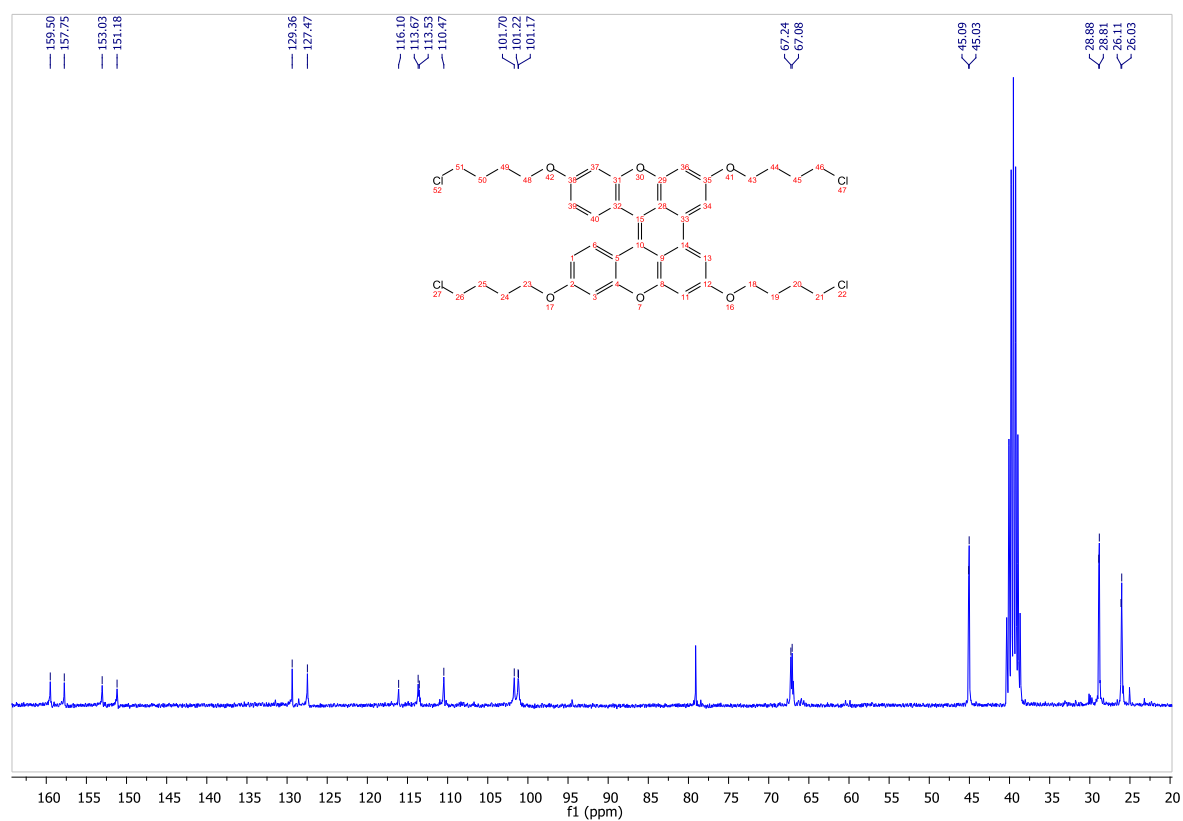


Figure 4: ^{13}C -NMR spectra of compound **4** (CDCl_3)

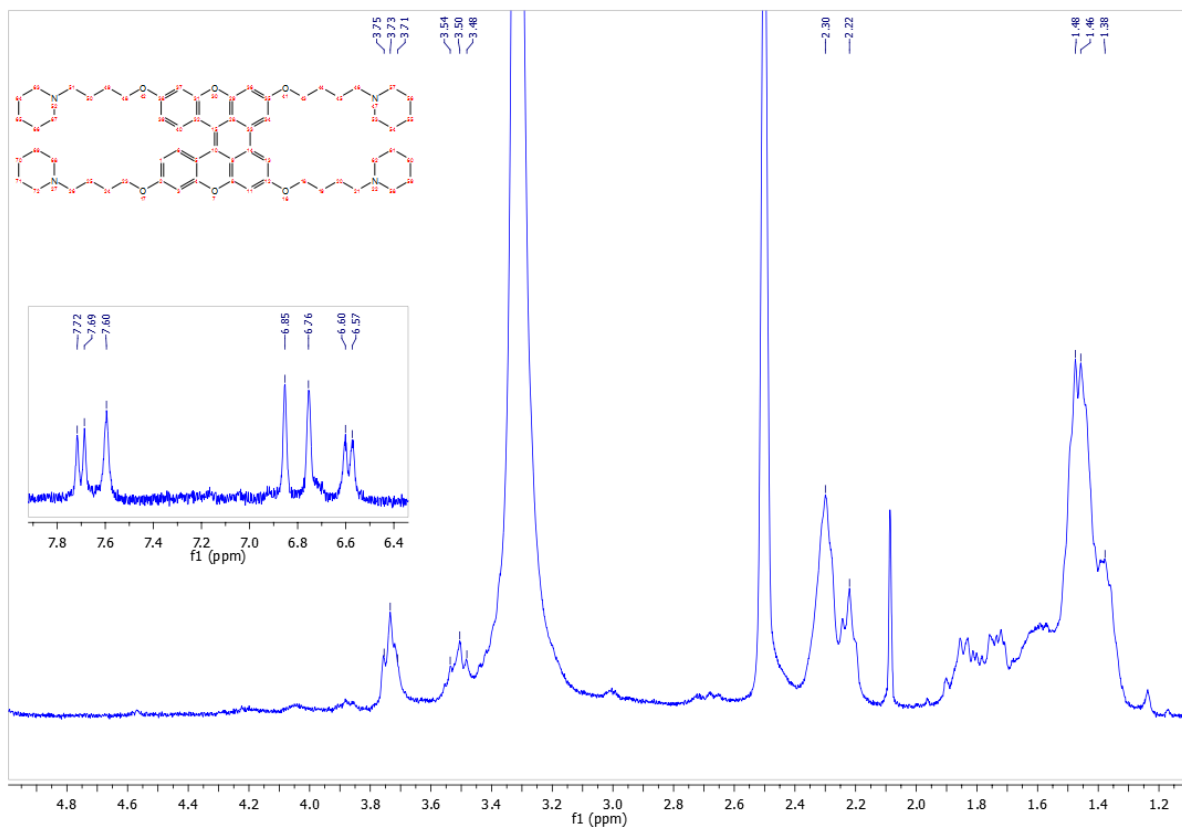


Figure 5: $^1\text{H-NMR}$ of **HELIXA4C** (dimer) (MeOH)

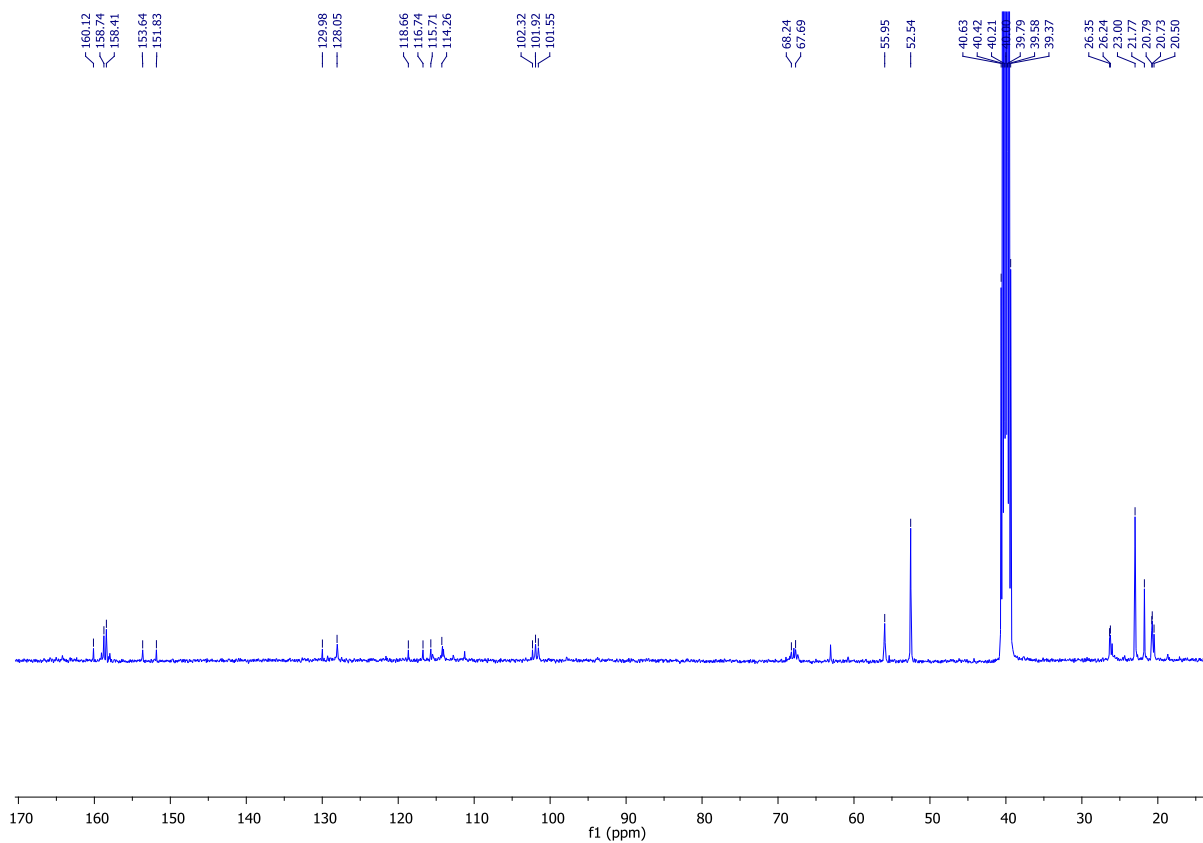


Figure 6: $^{13}\text{C-NMR}$ spectra of **HELIXA4C** (dimer) (MeOH)

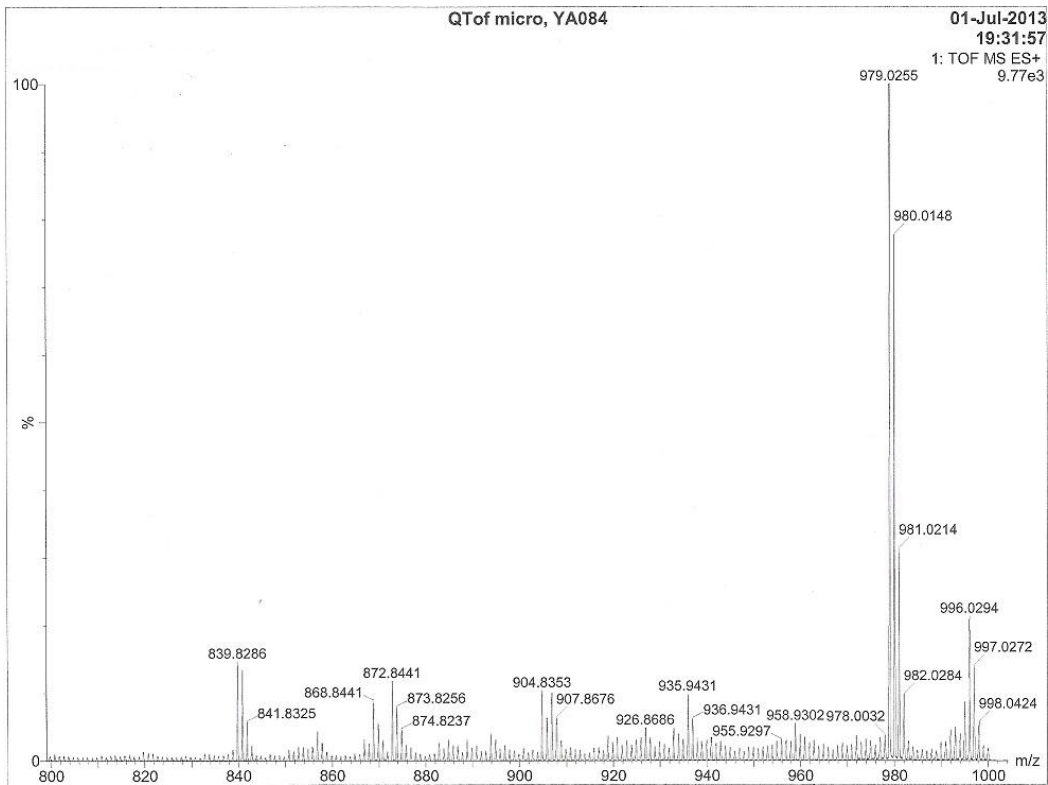


Figure 7: ESI mass spectra of compound HELIXA4C (dimer)

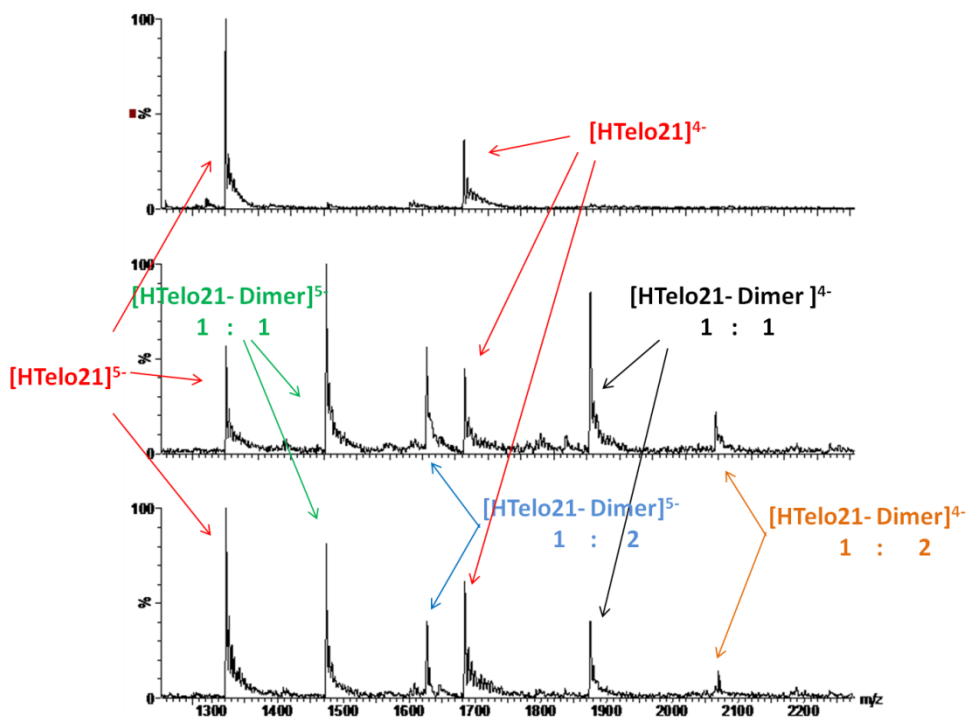


Figure 8: Competition experiments on HTelo21 oligo. ESI mass spectra of HTelo21 oligo in the presence of HELIXA4C (dimer) at 1 : 1 molar ratio and calf thymus DNA at 1 : 1 quadruplex/duplex ratio (in phosphate ions) UP: Human HTelo21 oligo alone; MIDDLE: Human HTelo21 oligo in presence of HELIXA4C(dimer); DOWN: Competition in presence of CT.