

Supporting Information

for

Biosynthetic origin of butyrolactol A, an antifungal polyketide produced by a marine-derived *Streptomyces*

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NMR spectra of ¹³C- and ²H-labeled **1**

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Figure S1: ^{13}C NMR spectrum of butyrolactol A (1) labeled with $[1,2-^{13}\text{C}_2]$ acetate (125 MHz, $\text{DMSO-}d_6$)

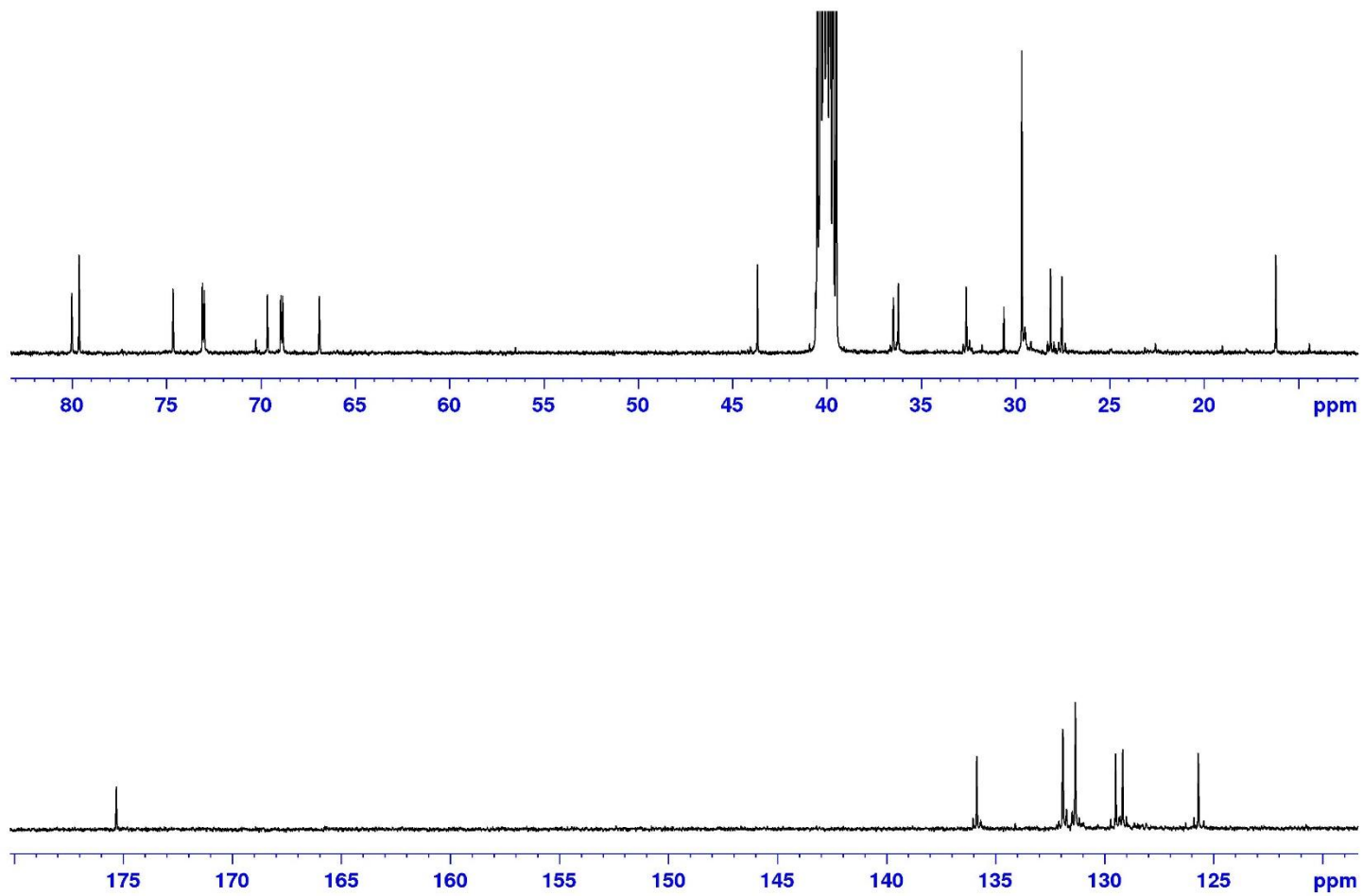


Figure S2: 2D-INADEQUATE spectrum of **1** labeled with [1,2-¹³C₂]acetate (125 MHz, DMSO-*d*₆)

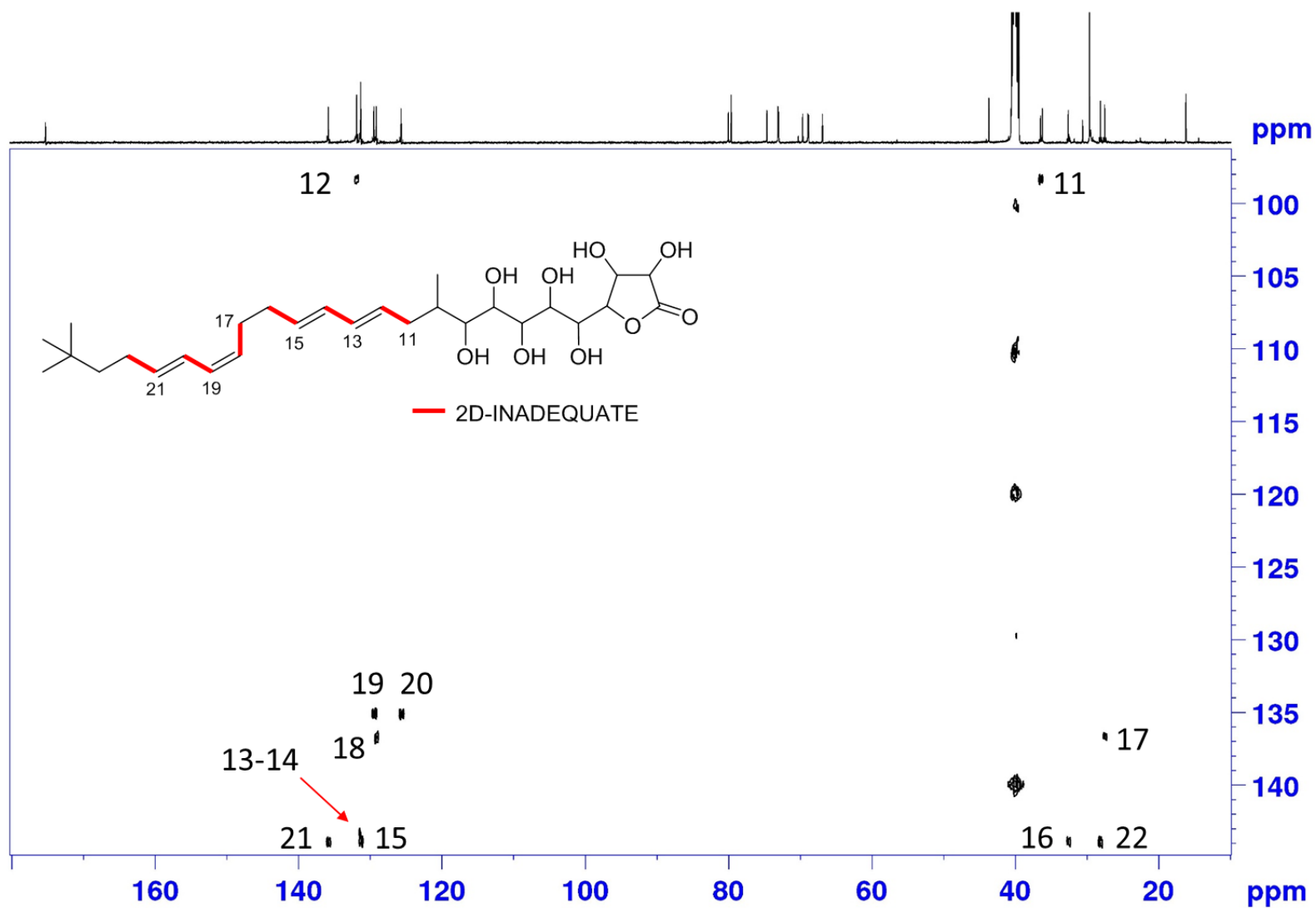


Figure S3: ^{13}C NMR spectrum of **1** labeled with $[\text{U-}^{13}\text{C}_6]\text{glucose}$ (125 MHz, $\text{DMSO-}d_6$)

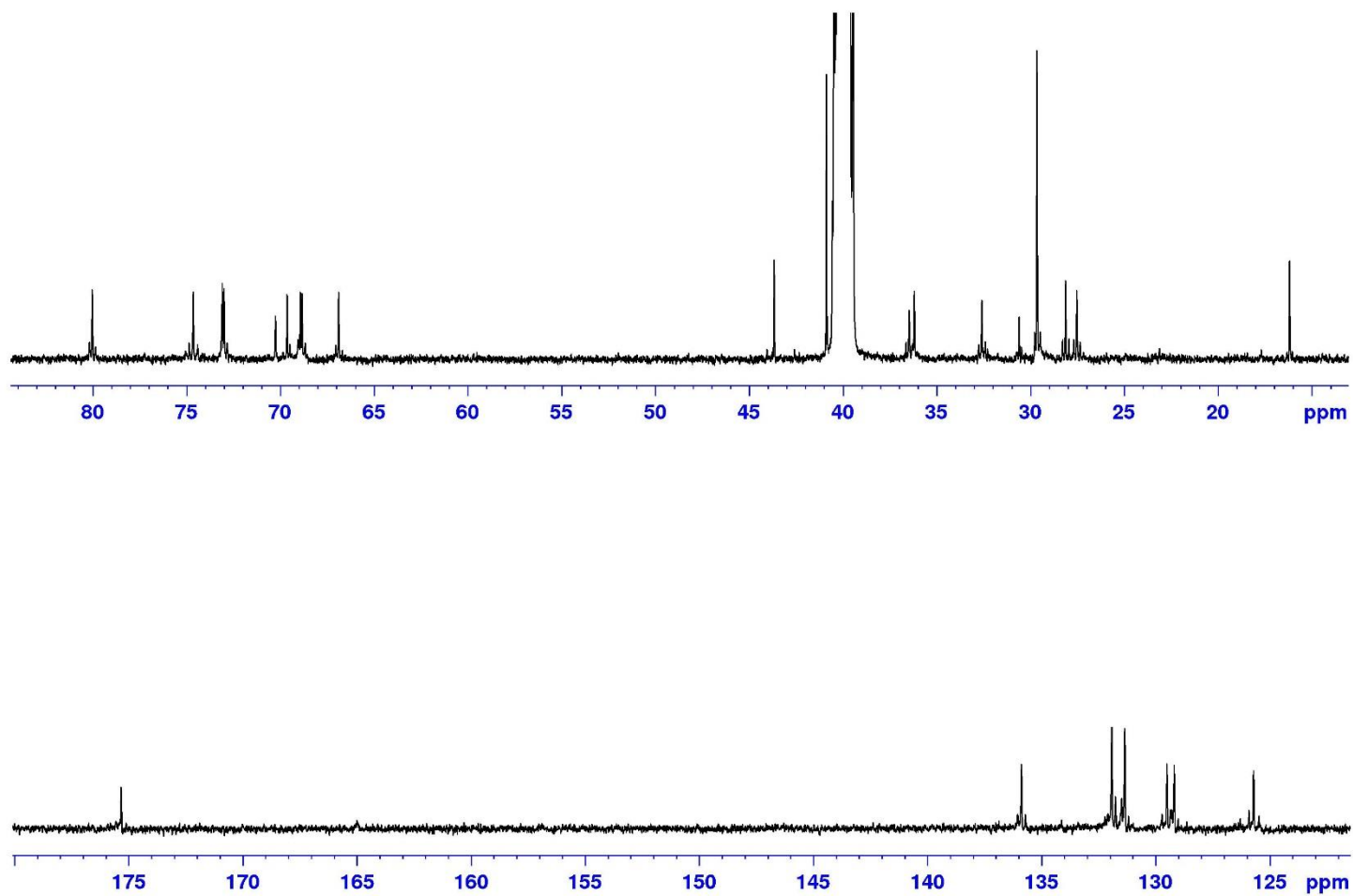


Figure S4: 2D-INADEQUATE spectrum of **1** labeled with [U-¹³C₆]glucose (125 MHz, DMSO-*d*₆)

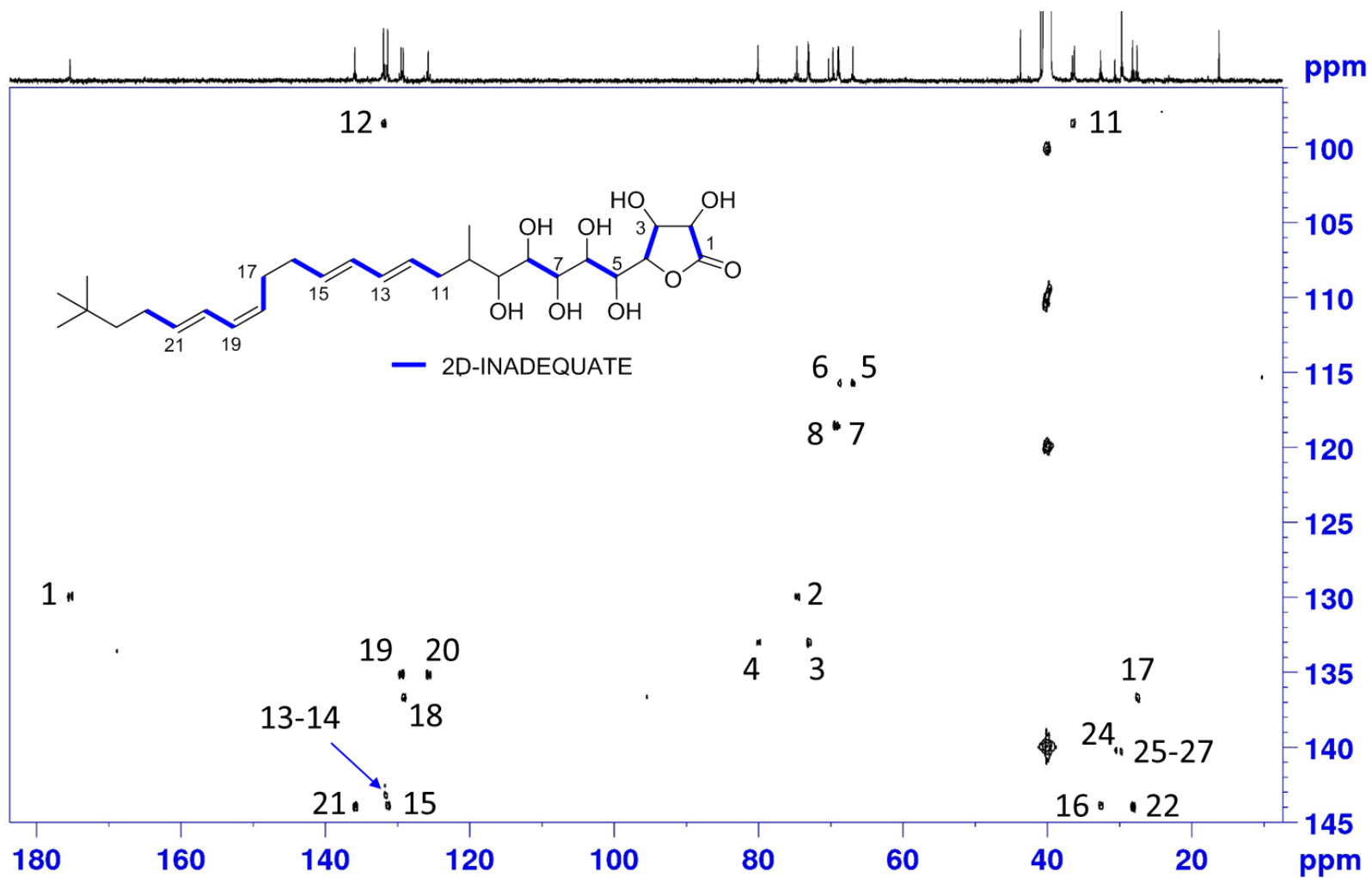


Figure S5: ^{13}C NMR spectrum of **1** labeled with $[1-^{13}\text{C}]$ propionate (125 MHz, $\text{DMSO-}d_6$)

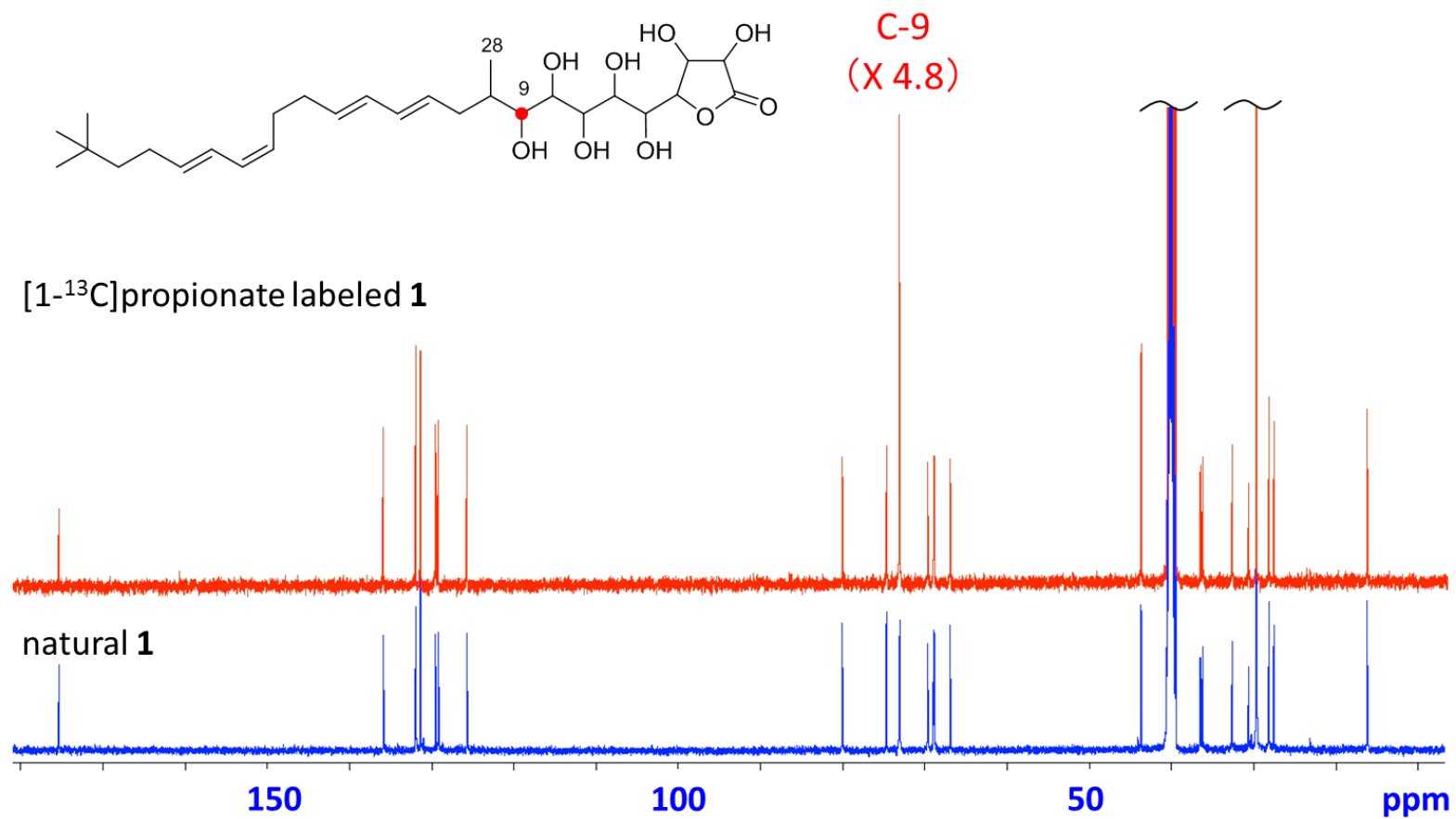


Figure S6: ^{13}C NMR spectrum of **1** labeled with L-[methyl- ^{13}C]methionine (125 MHz, $\text{DMSO-}d_6$)

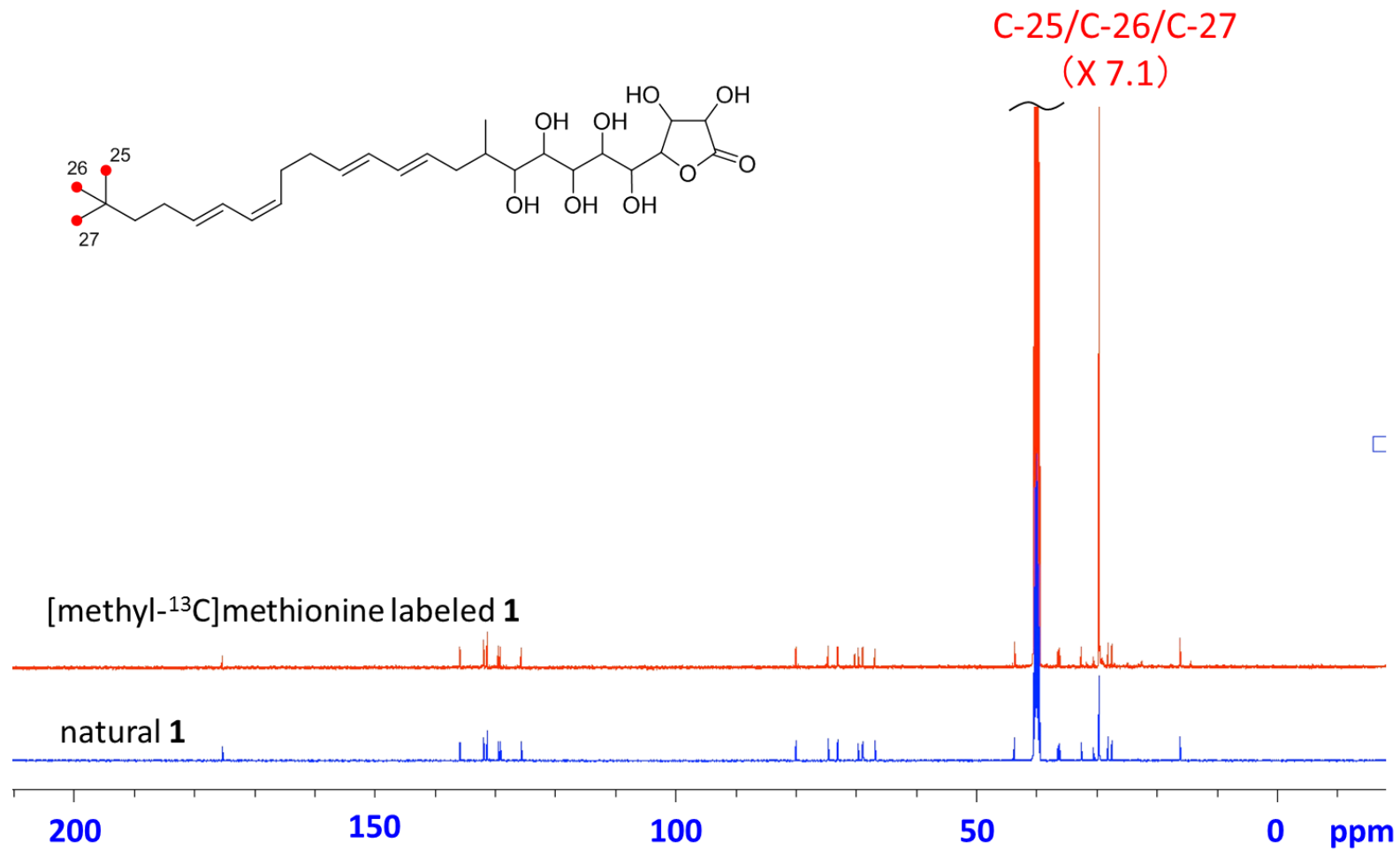


Figure S7: ^1H NMR spectrum of **1** (500 MHz, $\text{DMSO-}d_6$)

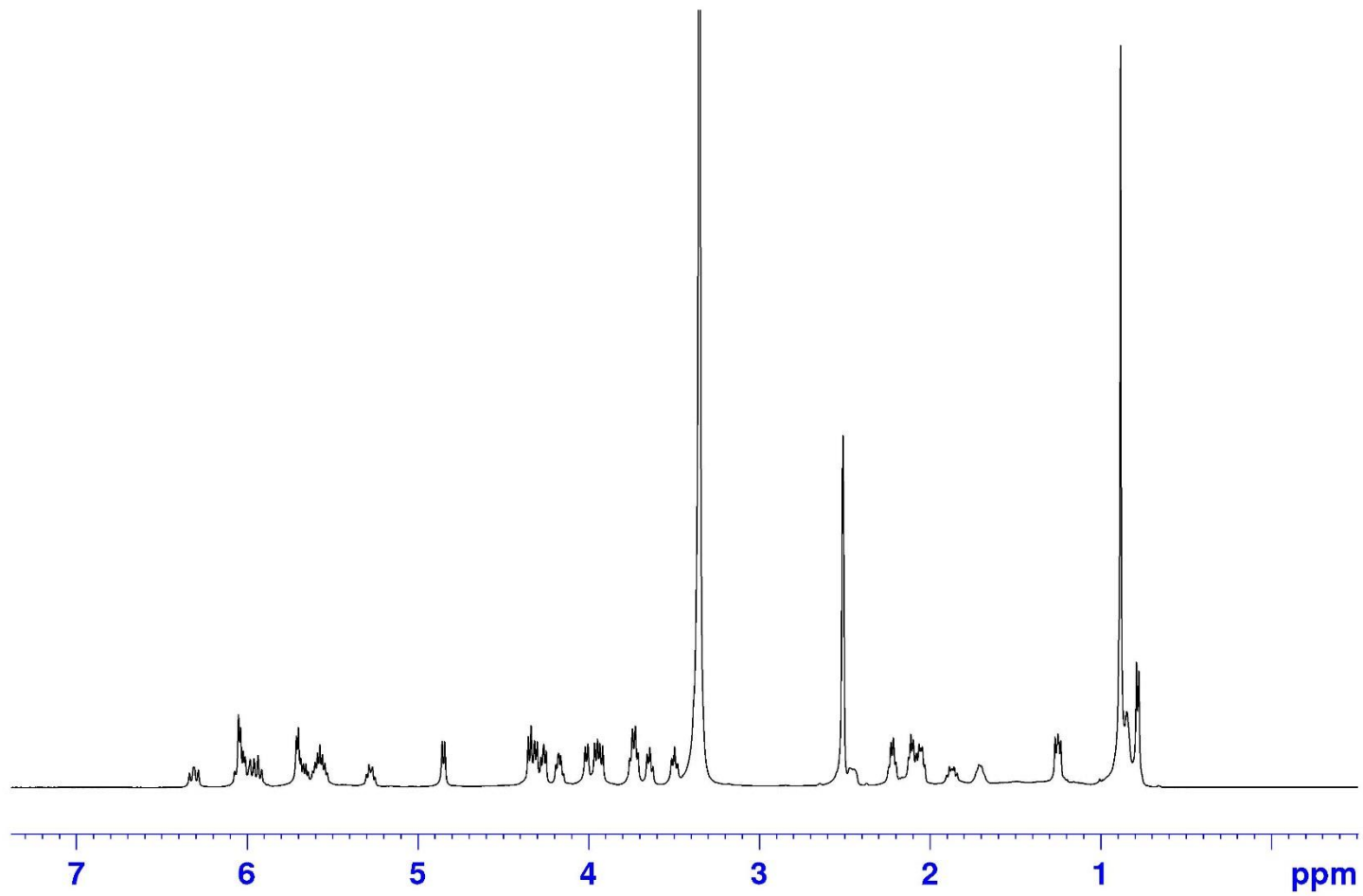


Figure S8: HRESITOFMS spectrum of **1**

