

Supplementary Material

The synthesis of 7,9-dimethoxy-3-propyl-3,4-dihydro-1*H*-benzo[*g*]isochromene-1,5,10-trione: A potential monomer for the synthesis of the natural product xylindein

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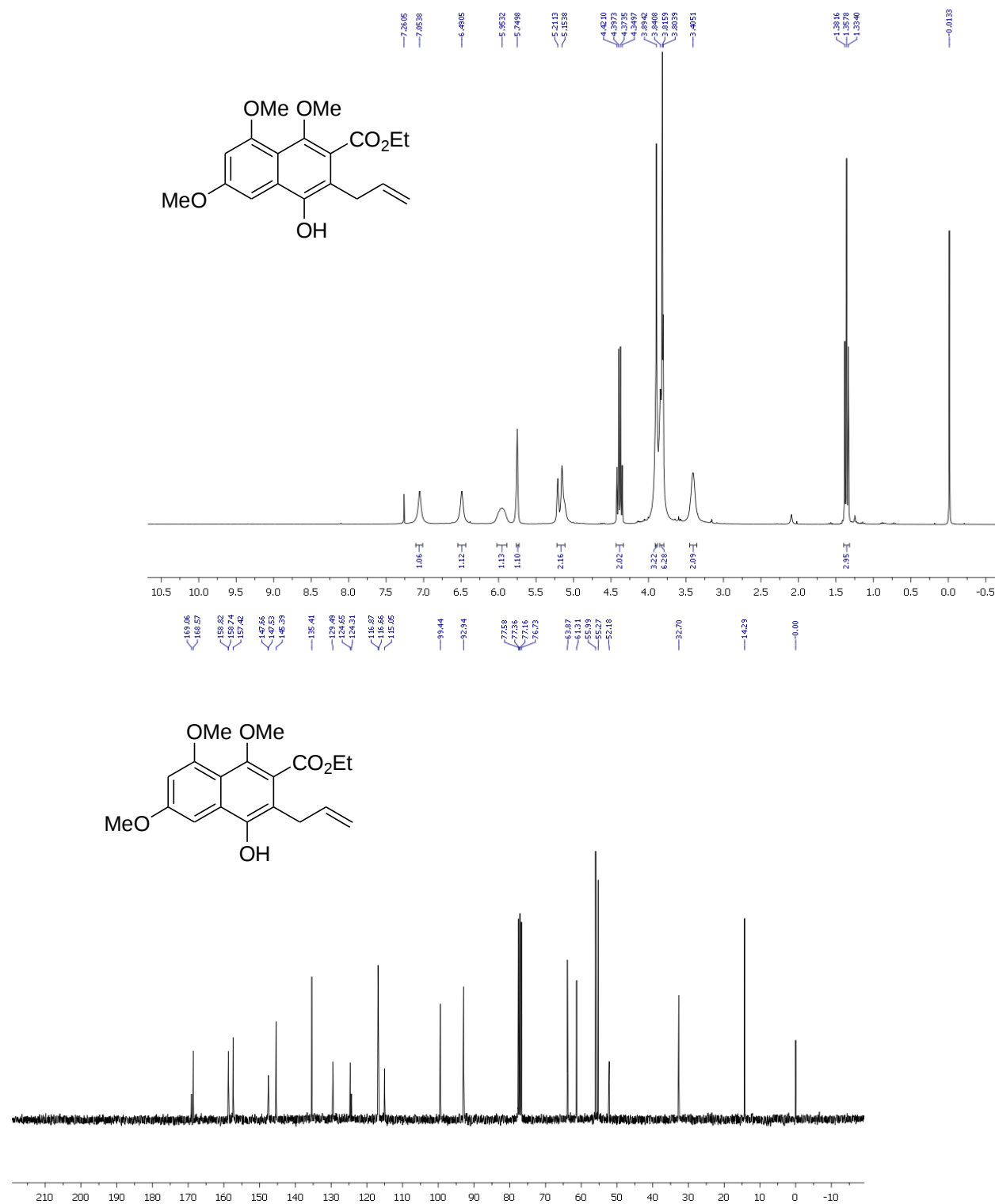
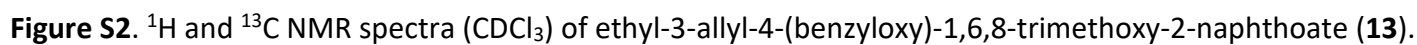


Figure S1. ¹H and ¹³C NMR spectra (CDCl₃) of ethyl-3-allyl-4-hydroxy-1,6,8-trimethoxynaphthalene-2-naphthoate (12).



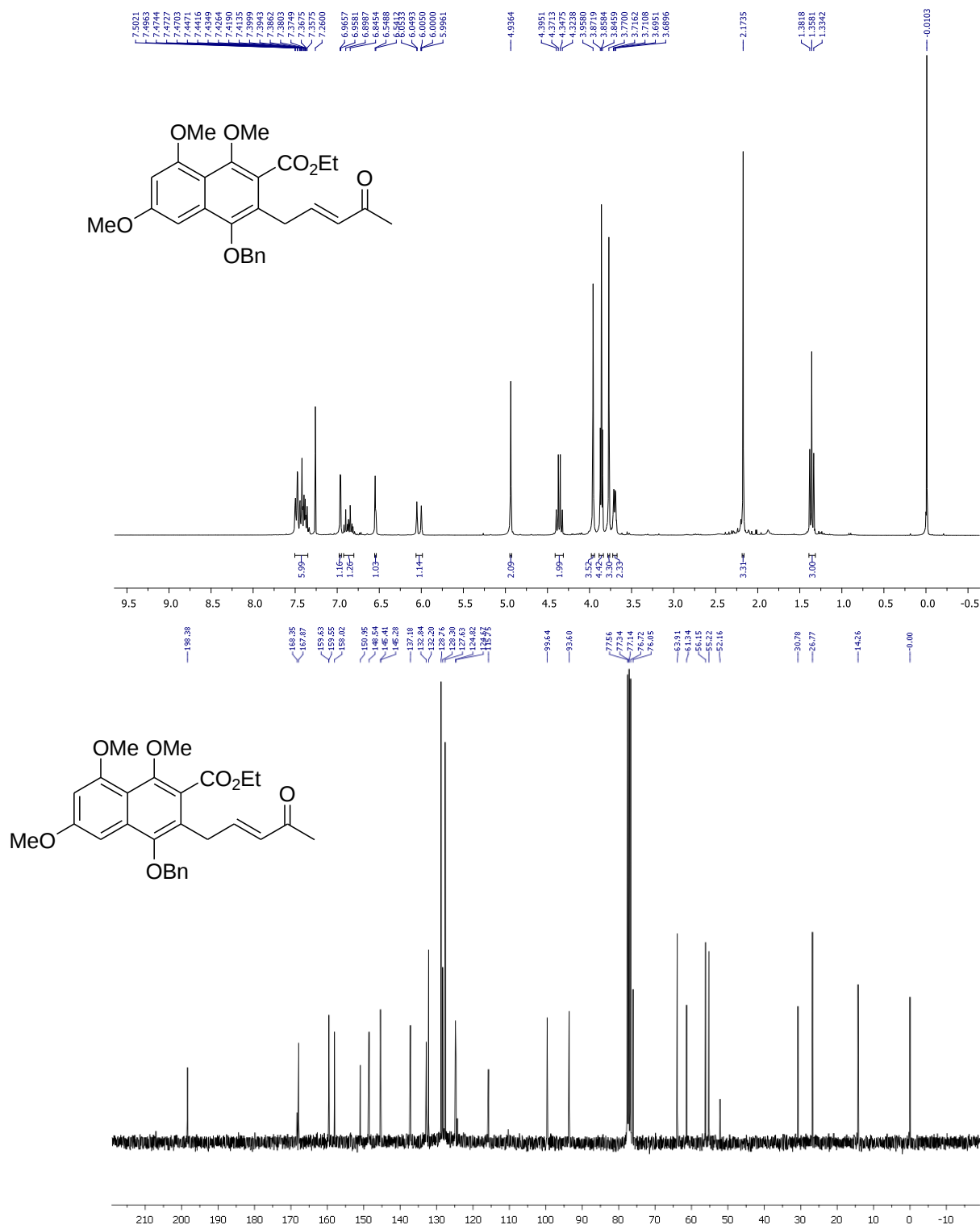


Figure S3. ¹H and ¹³C NMR spectra (CDCl₃) of ethyl-4-(benzyloxy)-1,6,8-trimethoxy-3-(4-oxopent-2-enyl)-2-naphthoate (**14**).

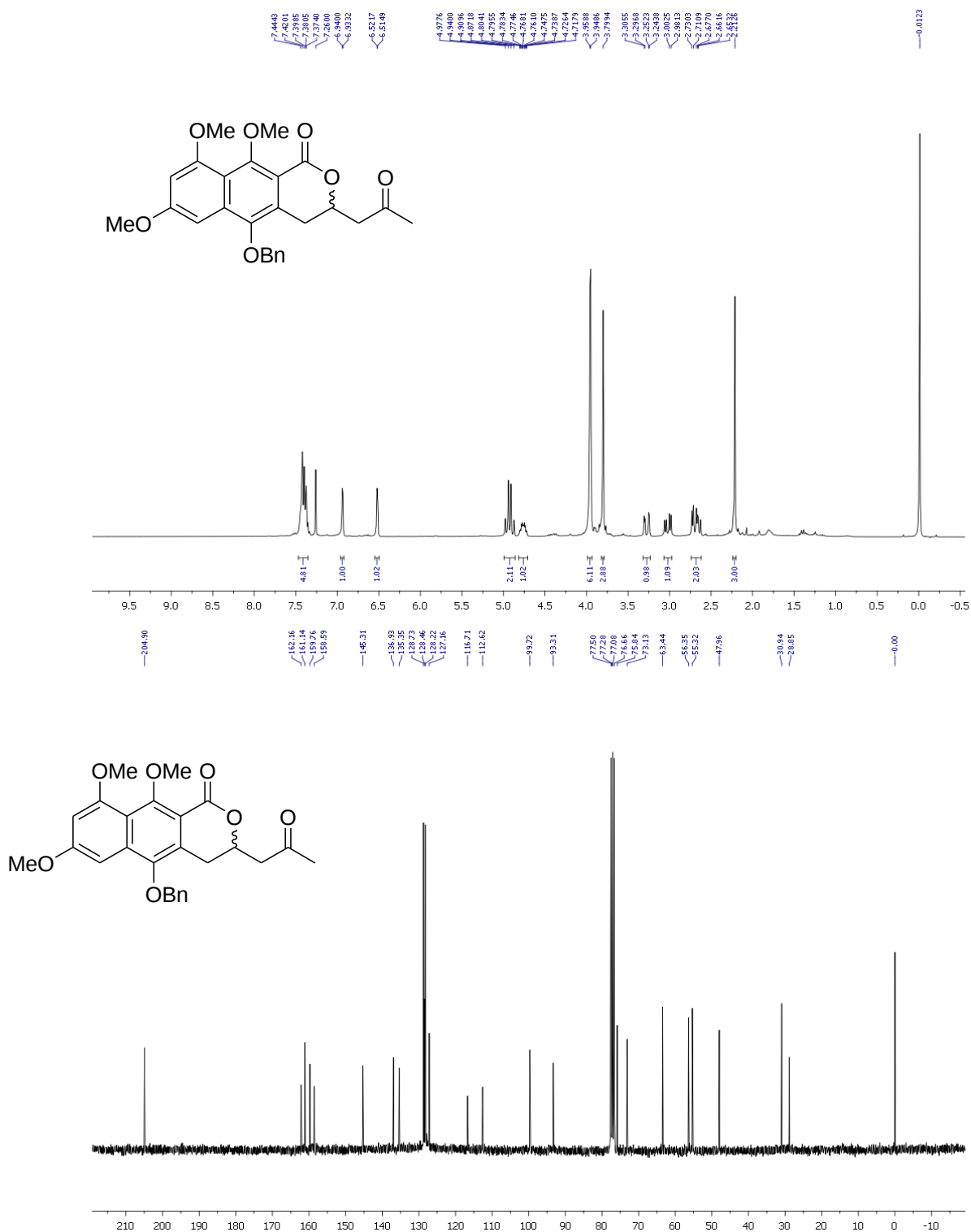


Figure S4. ¹H and ¹³C NMR spectra (CDCl₃) of 5-(benzyloxy)-7,9,10-trimethoxy-3-(2-oxopropyl)-3,4-dihydro-1H-benzo[g]isochromen-1-one (**15**).

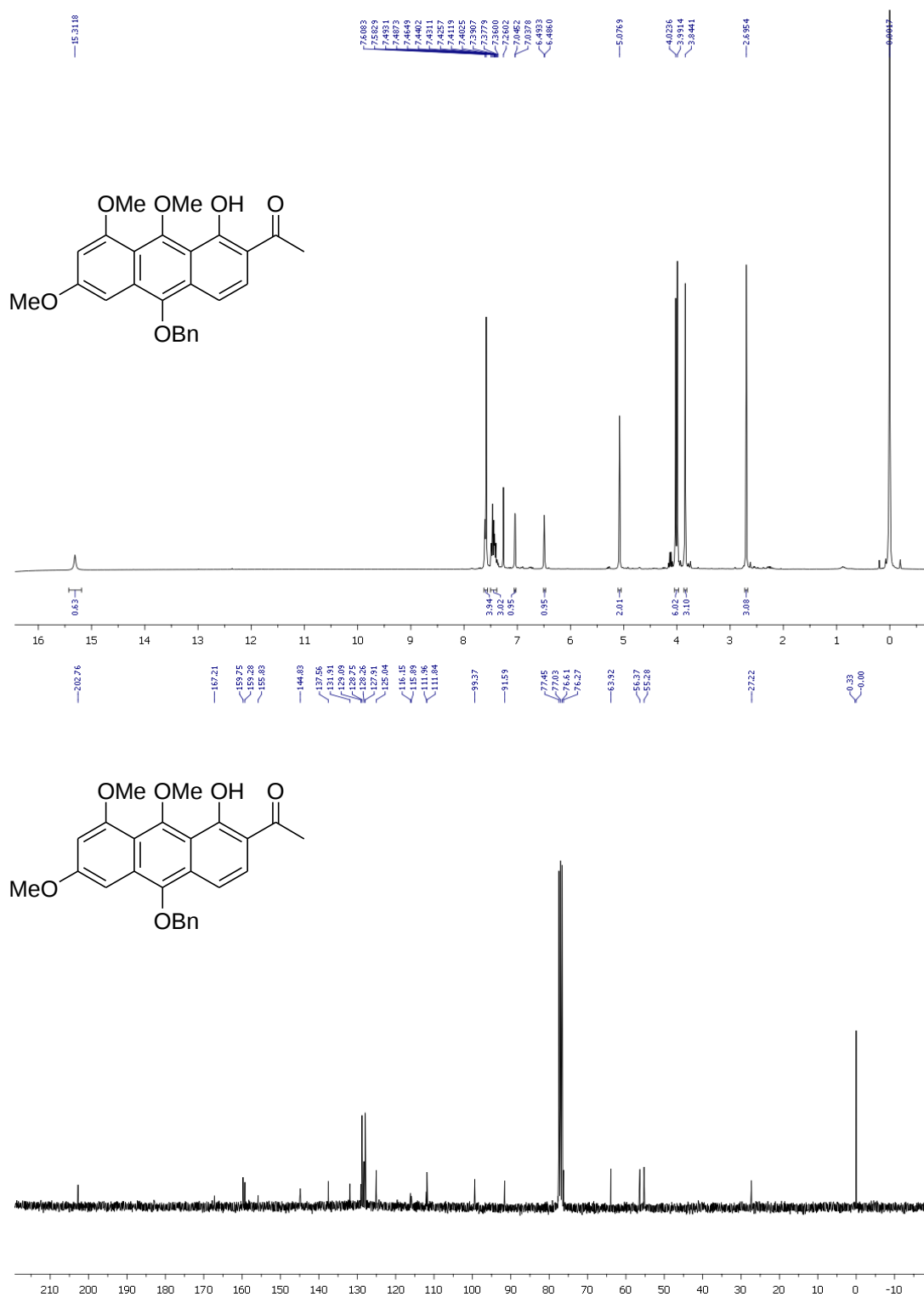


Figure S5. ¹H and ¹³C NMR spectra (CDCl₃) of 1-[10-(benzyloxy)-1-hydroxy-6,8,9-trimethoxyanthracen-2-yl]ethanone (**16**).

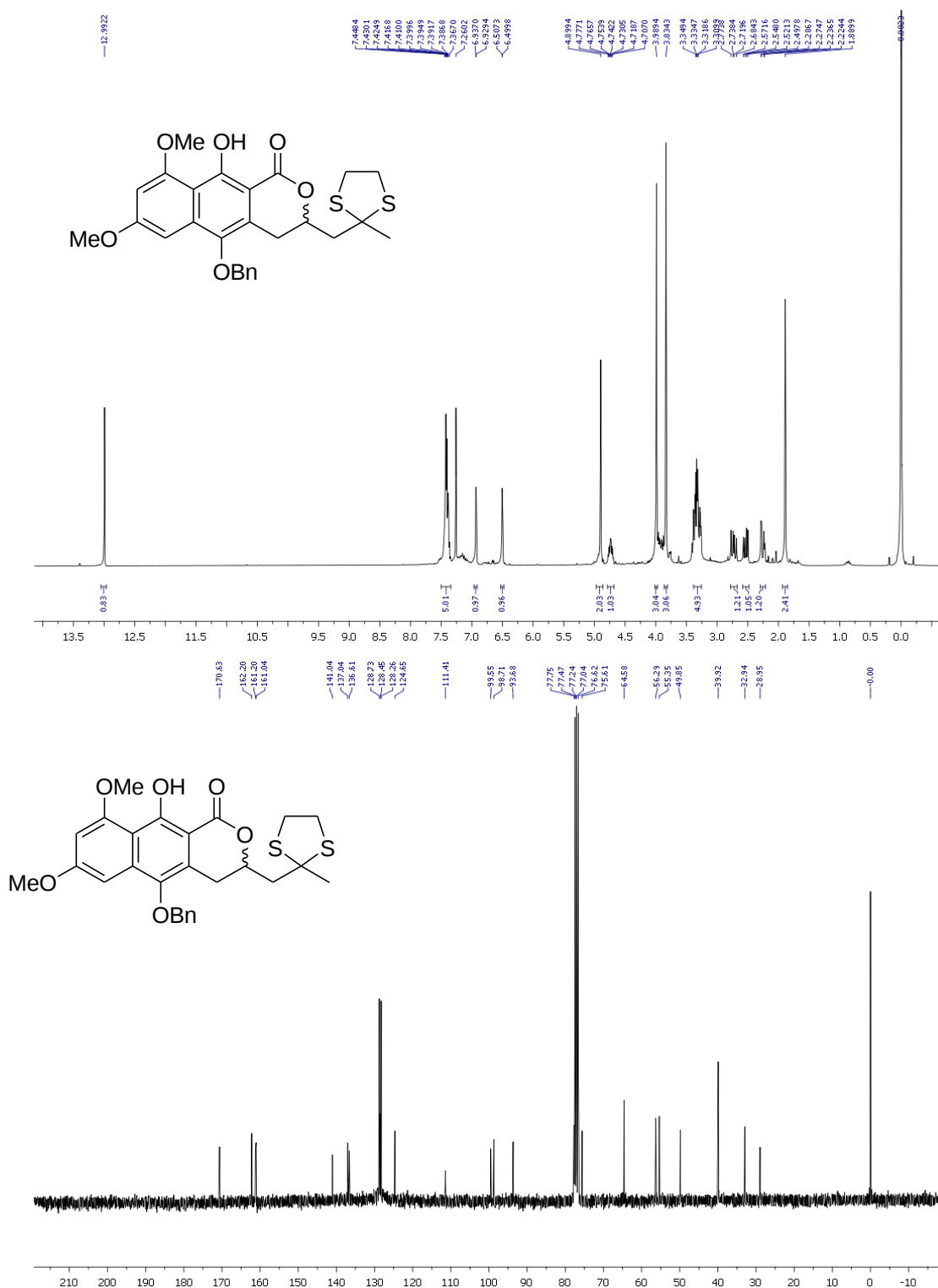


Figure S6. ¹H and ¹³C NMR spectra (CDCl₃) of 5-(benzyloxy)-10-hydroxy-7,9-dimethoxy-3-(2-methyl-1,3-dithiolan-2-yl)methyl-3,4-dihydro-1H-benzo[g]isochromen-1-one (17a).

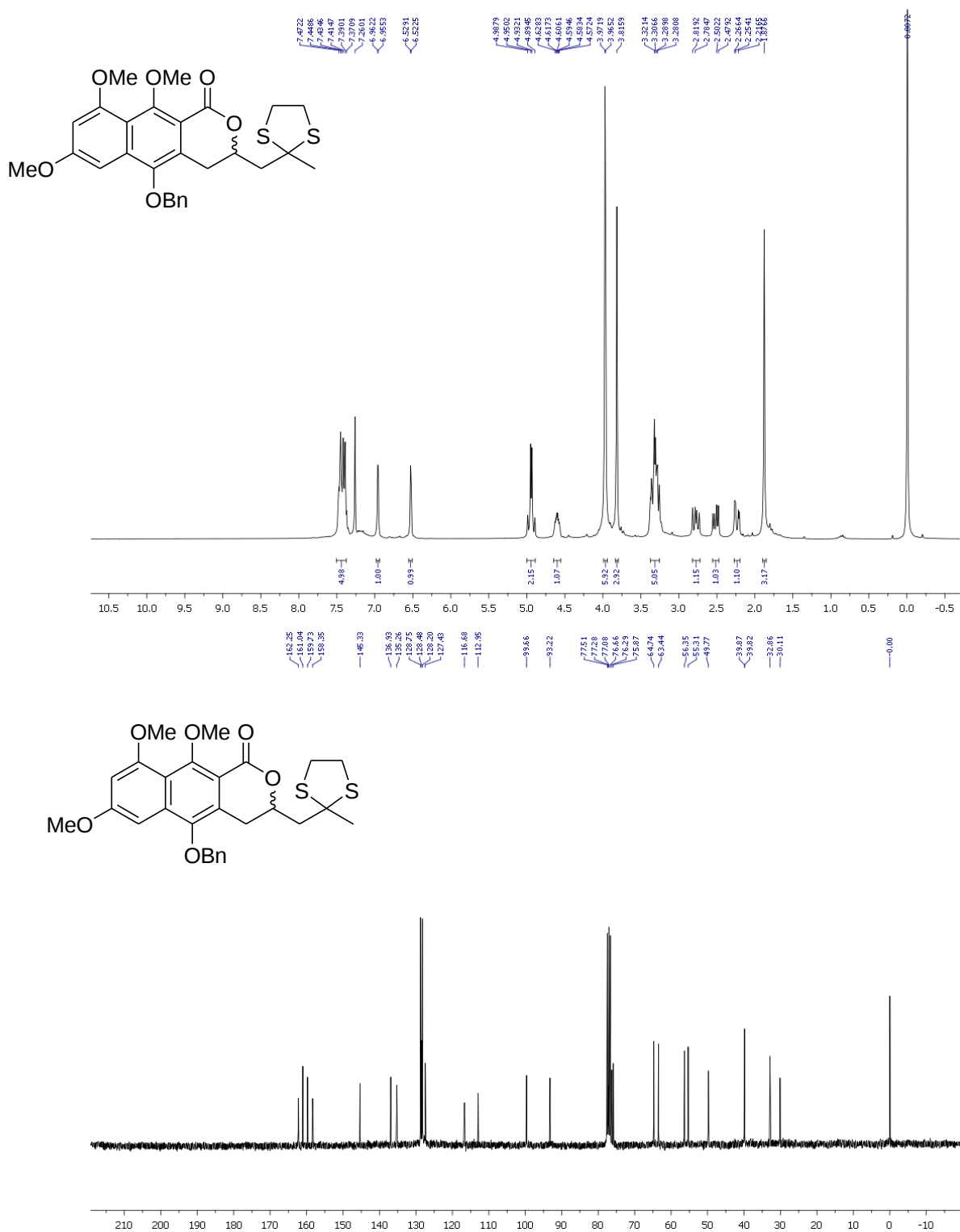


Figure S7. ¹H and ¹³C NMR spectra (CDCl₃) of 5-(benzyloxy)-7,9,10-trimethoxy-3-(2-methyl-1,3-dithiolan-2-yl)methyl-3,4-dihydro-1H-benzo[g]-isochromen-1-one (**17**).



Figure S8. ¹H and ¹³C NMR spectra (CDCl₃) of 5-hydroxy-7,9-dimethoxy-3-propyl-3,4-dihydro-1H-benzo[g]isochromen-1-one (**18**).

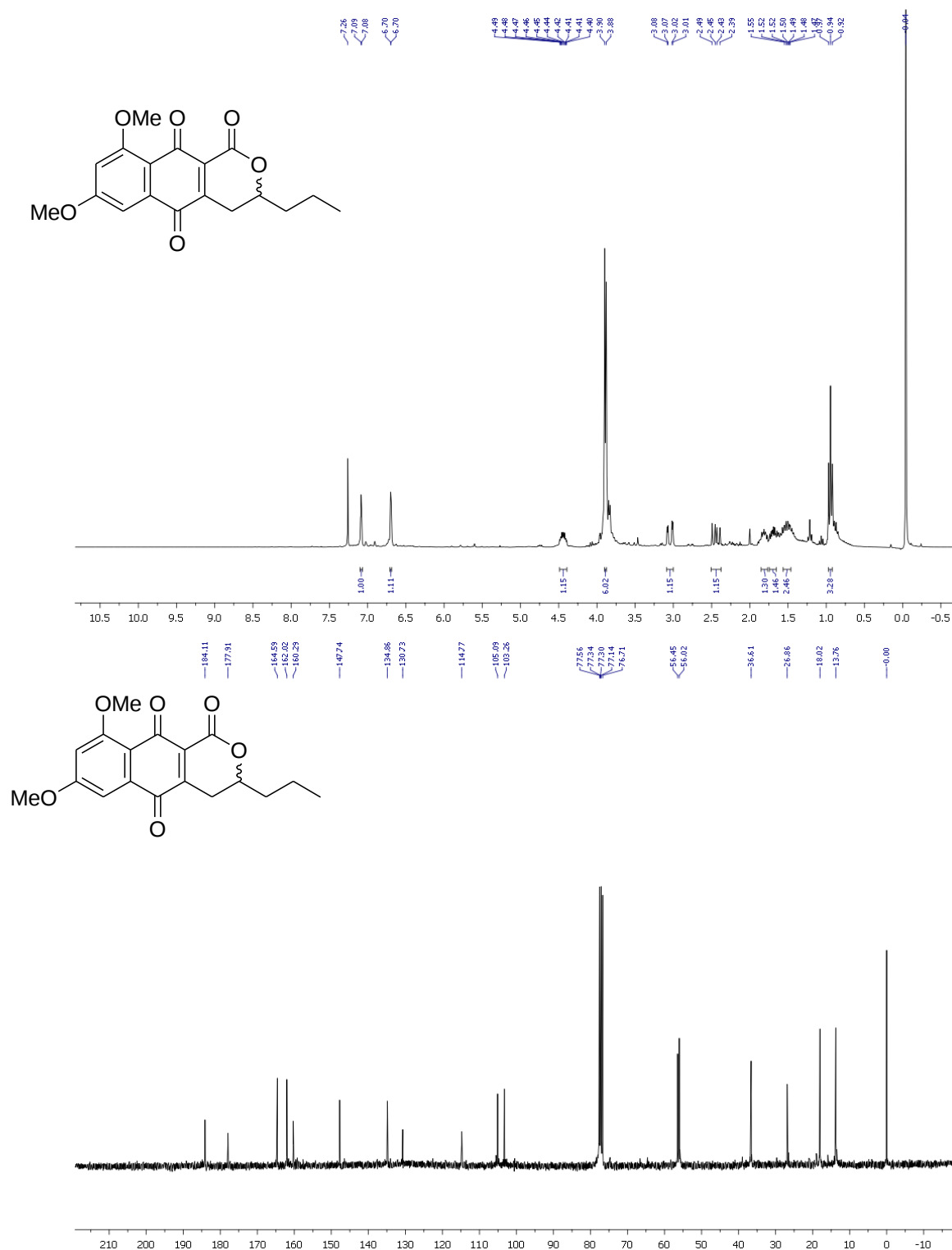


Figure S9. ¹H and ¹³C NMR spectra (CDCl₃) of 7,9-dimethoxy-3-propyl-3,4-dihydro-1H-benzo[g]isochromen-1,5,10-trione (10).