Supplementary data

Multicomponent synthesis of new hybrid PHQ-fatty acids

H. D. Fontecha-Tarazona[a], R. C. Brinkerhoff[a], P. M. de Oliveira[a], S. B. Rosa[a], D. C. Flores[a], C. Da R. Montes D'Oca[b], D. Russowsky[b] and M. G. Montes D'Oca.[*,a]

[a]*Laboratório Kolbe de Síntese Orgânica, Escola de Química e Alimentos, Universidade Federal do Rio Grande, Rio Grande, RS, Brazil*
[b]*Laboratório de Síntese Orgânica, Instituto de Química, Universidade Federal do Rio Grande do Sul, Porto Alegre, RS, Brazil*

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[*]Corresponding author: Escola de Química e Alimentos, Universidade Federal do Rio Grande, Av. Itália, km 08, s/n. Carreiros. 96203-900. Rio Grande, RS, Brazil. Tel: +55 53 32336960; fax +55 53 3233 6961. E-mail address: dqmdoca@furg.br (MGM D'Oca)

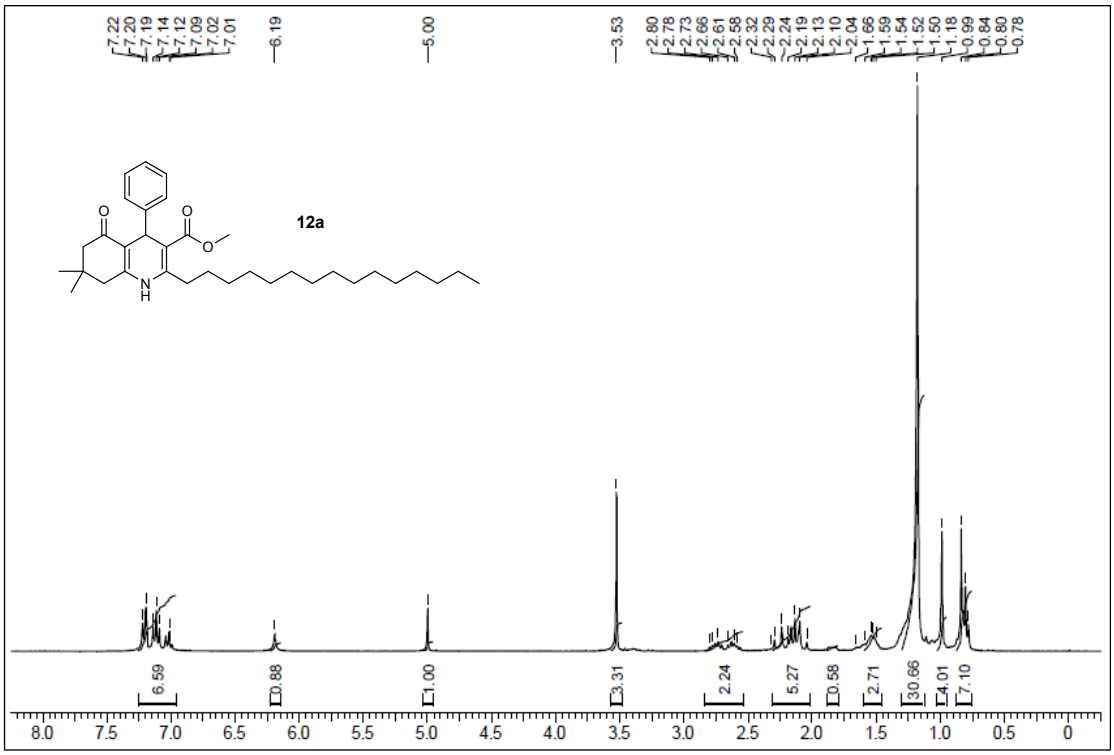

Figure S1.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **12a**.

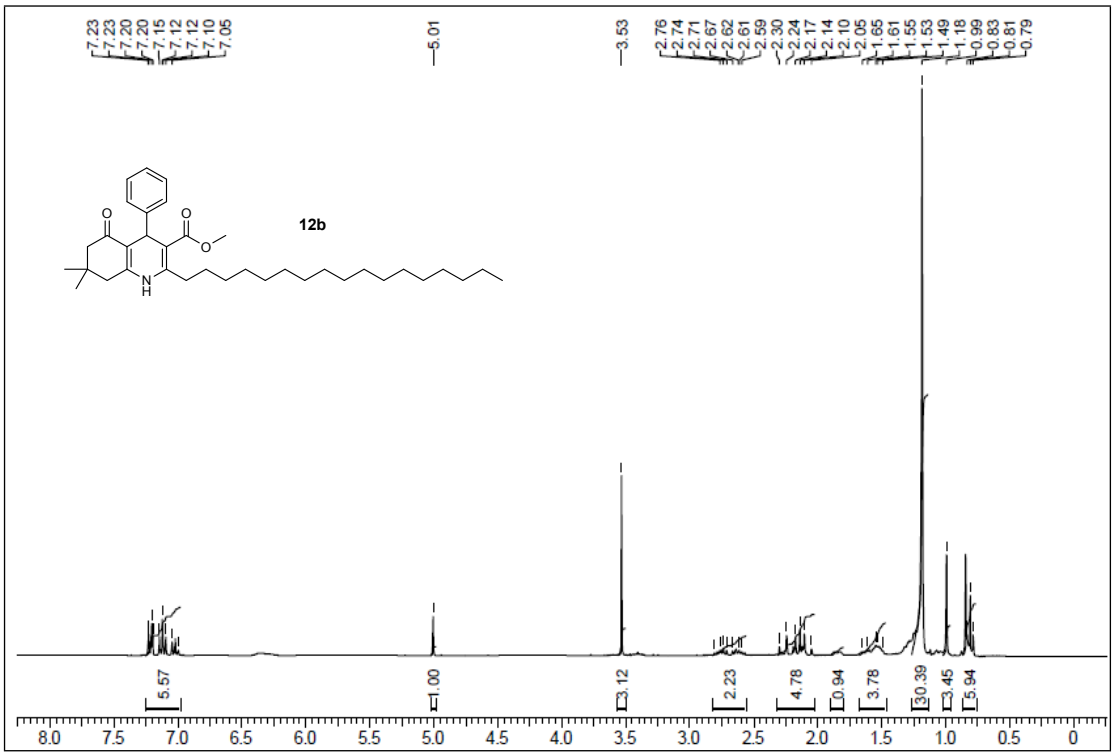

Figure S2.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **12b**.

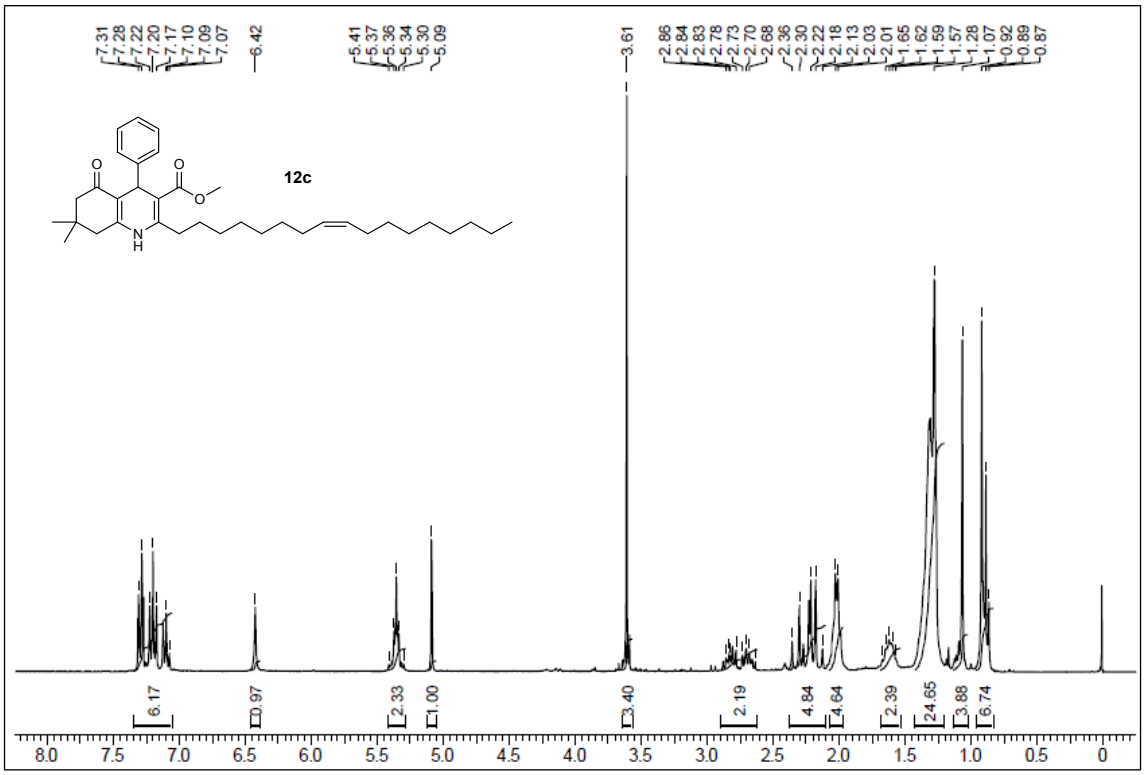

Figure S3.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **12c**.

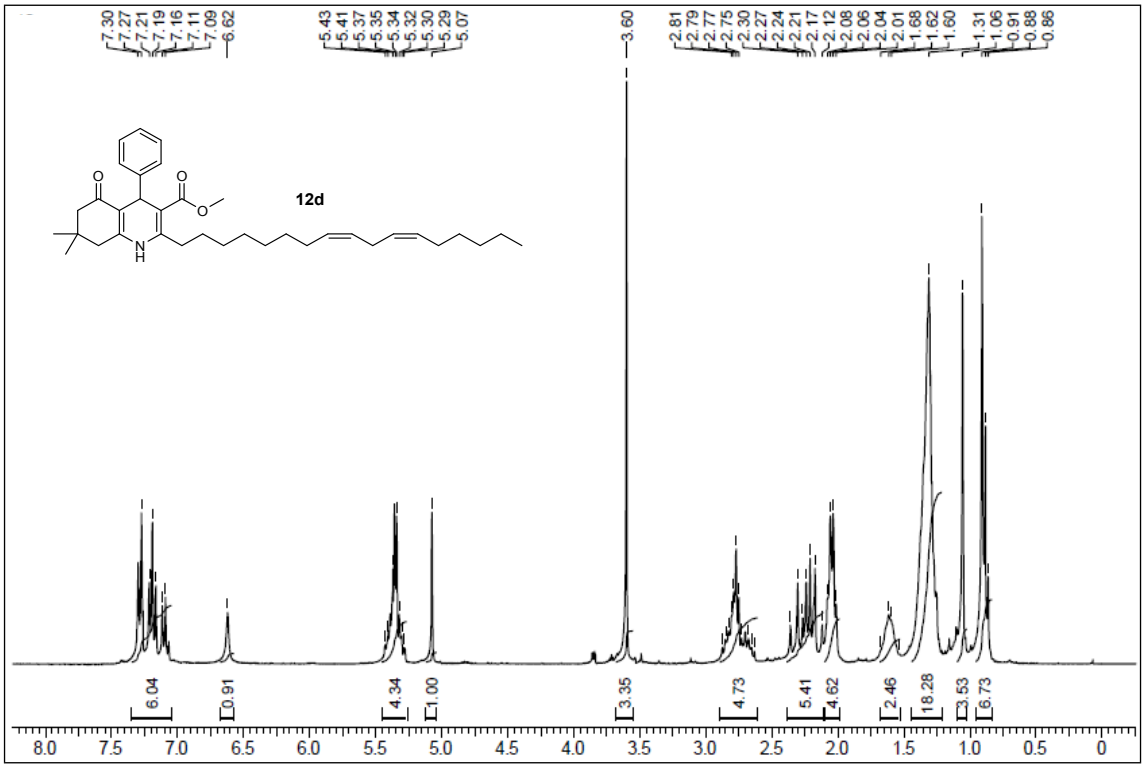

Figure S4.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **12d**.

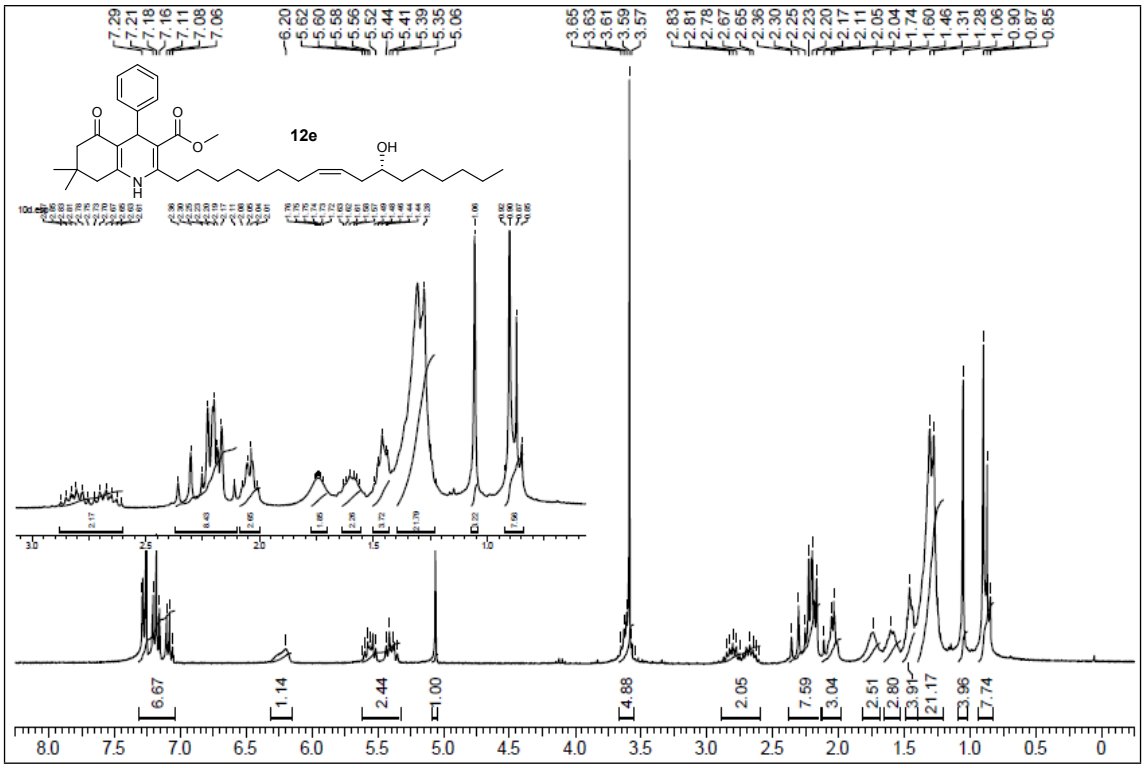

Figure S5.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **12e**.

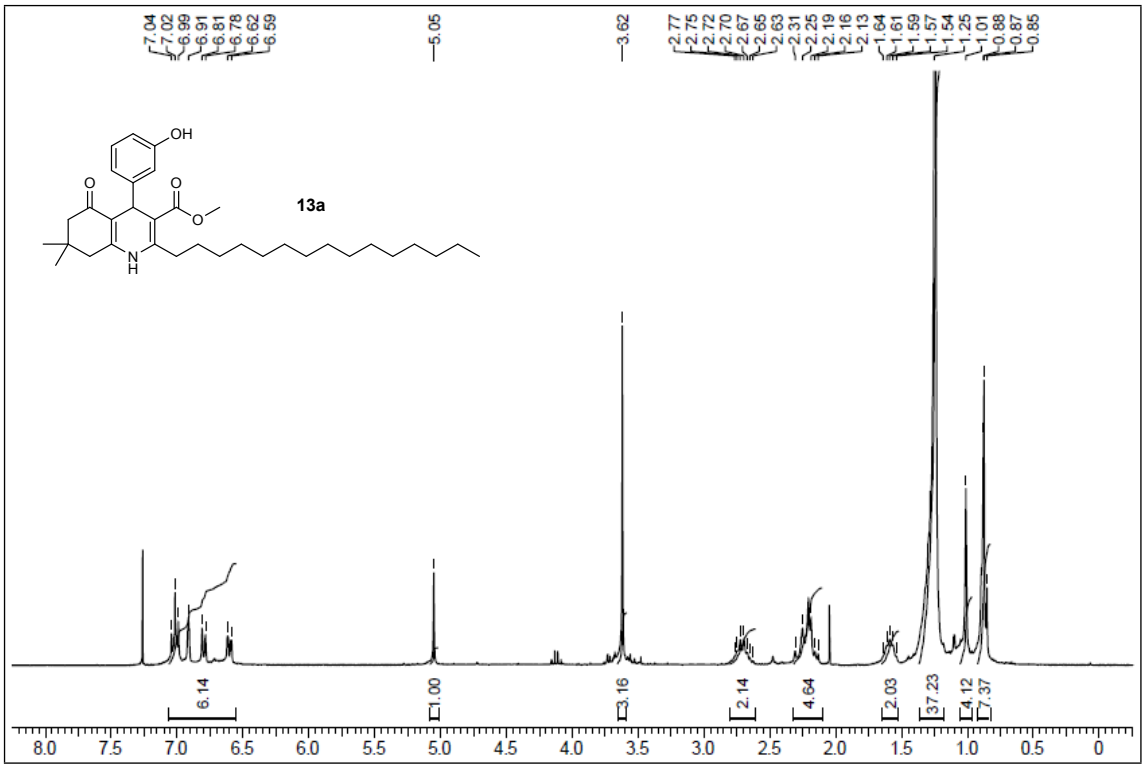

Figure S6.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **13a**.

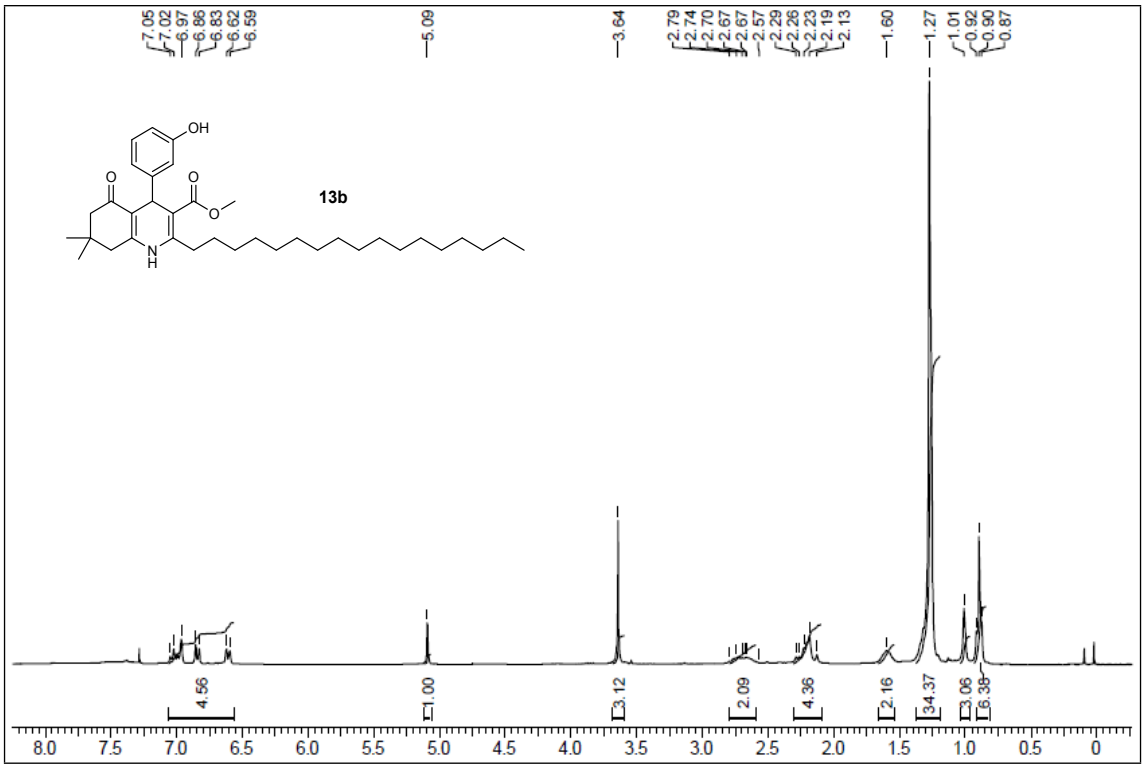

Figure S7.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **13b**.

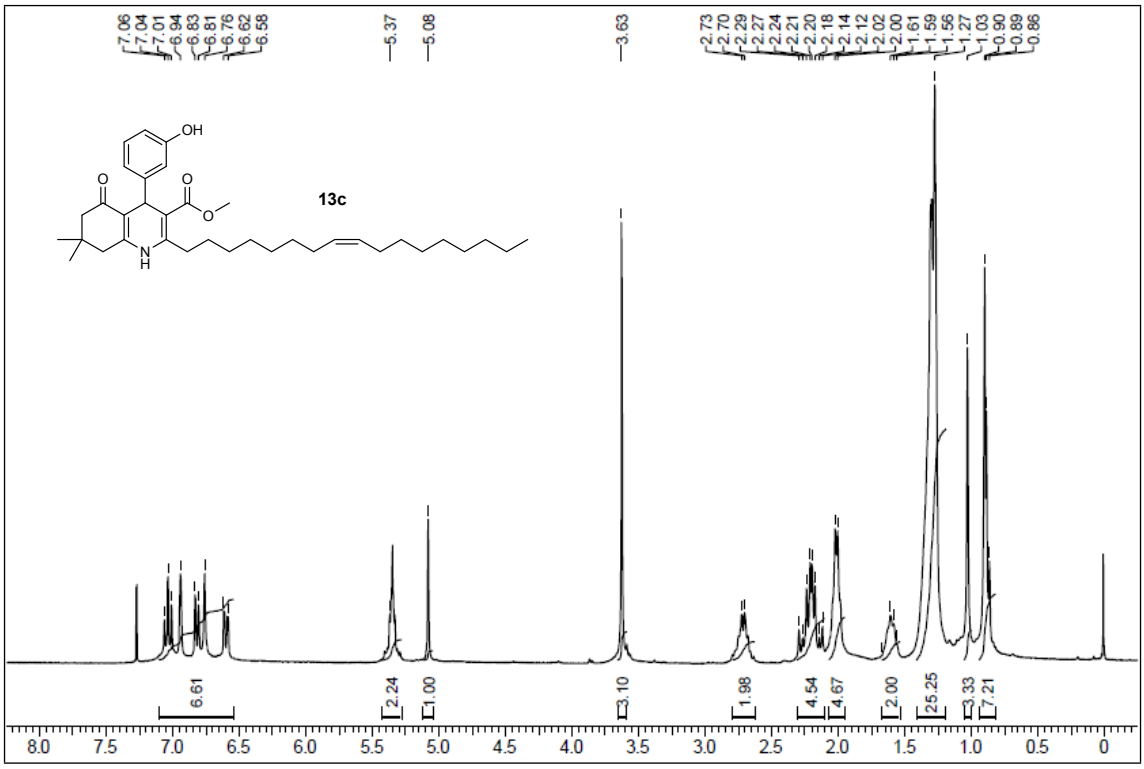

Figure S8.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **13c**.

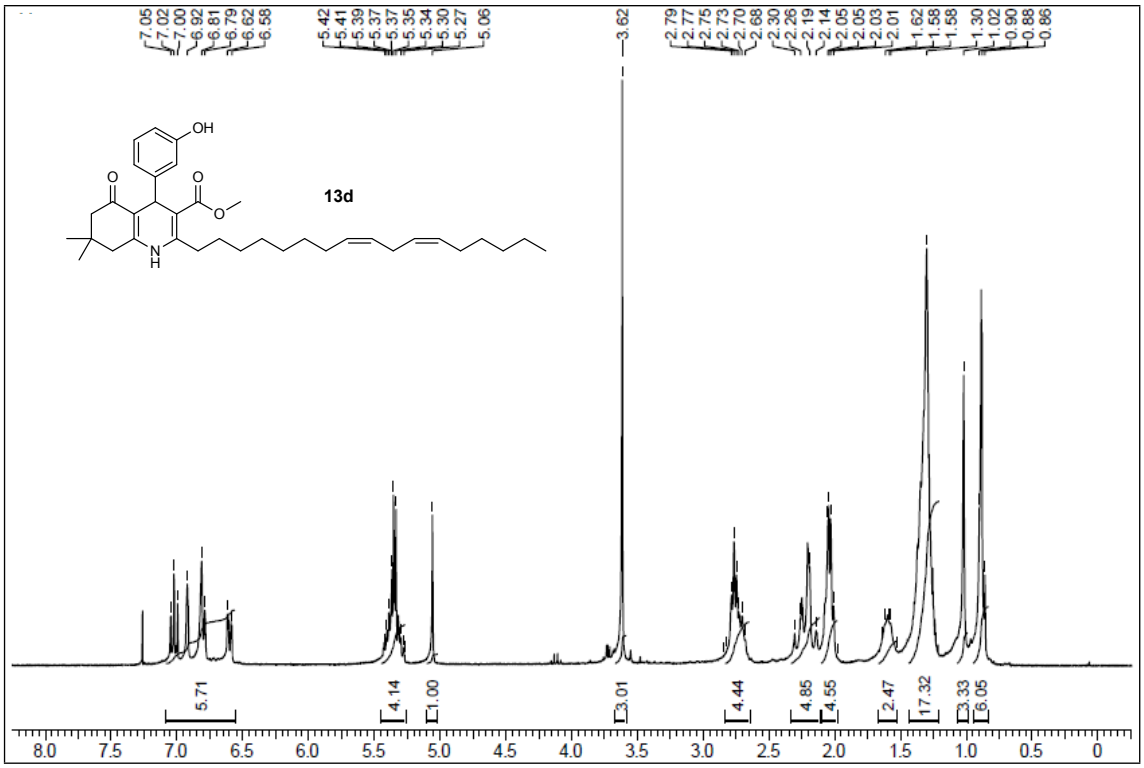

Figure S9.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **13d**.

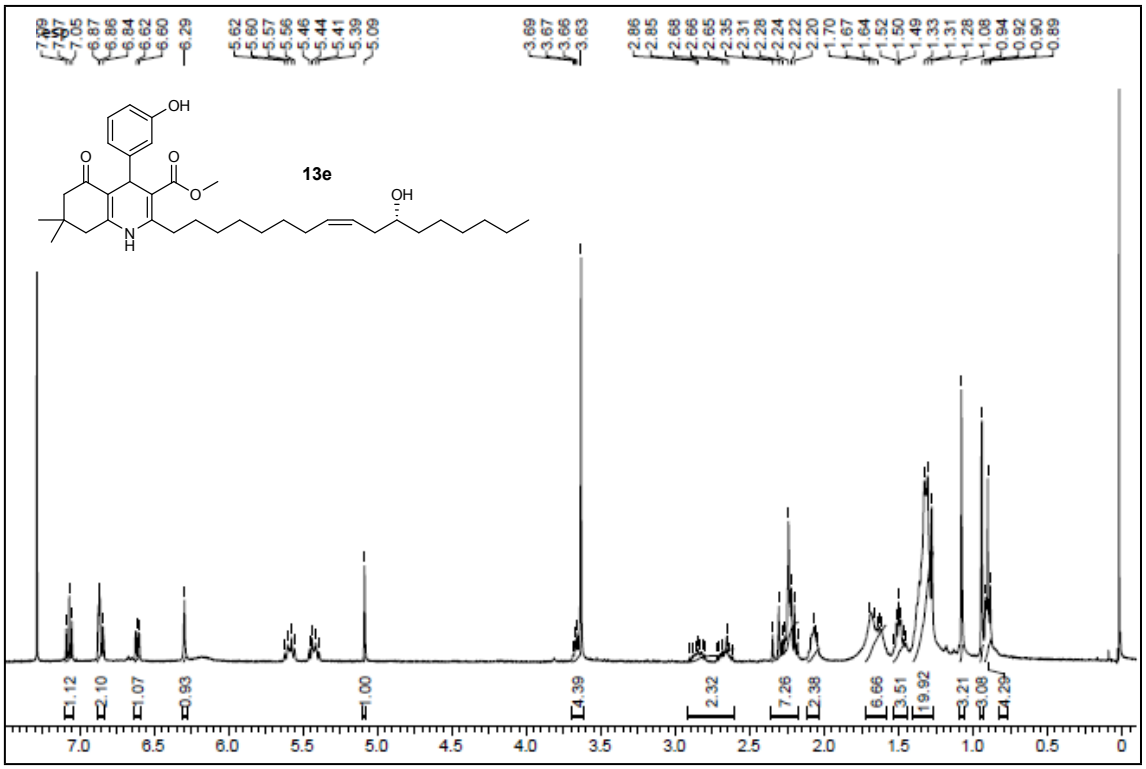

Figure S10.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **13e**.

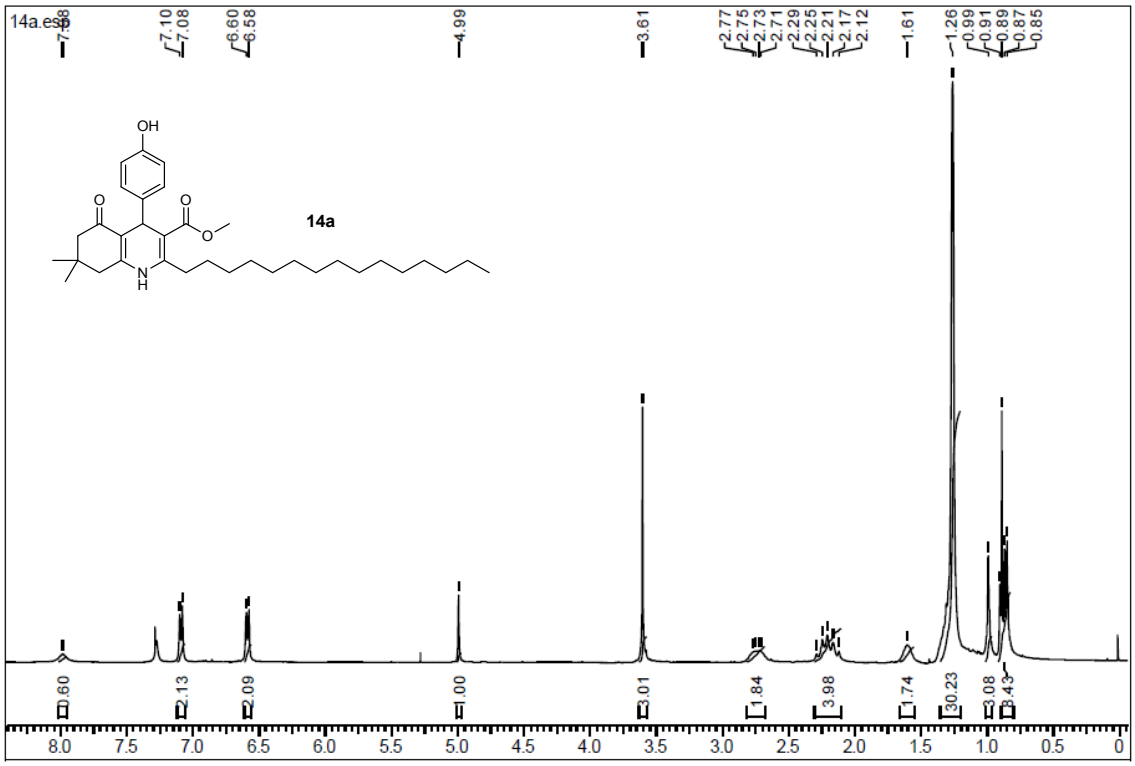

Figure S11.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **14a**.

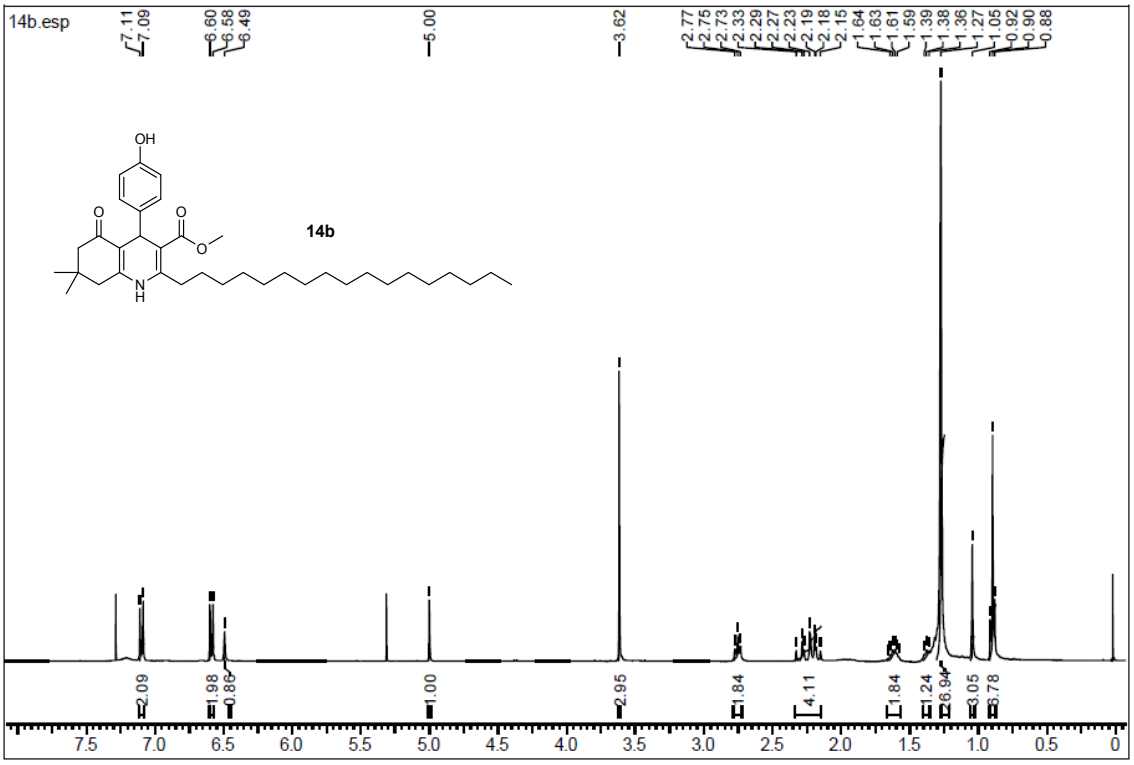

Figure S12.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **14b**.

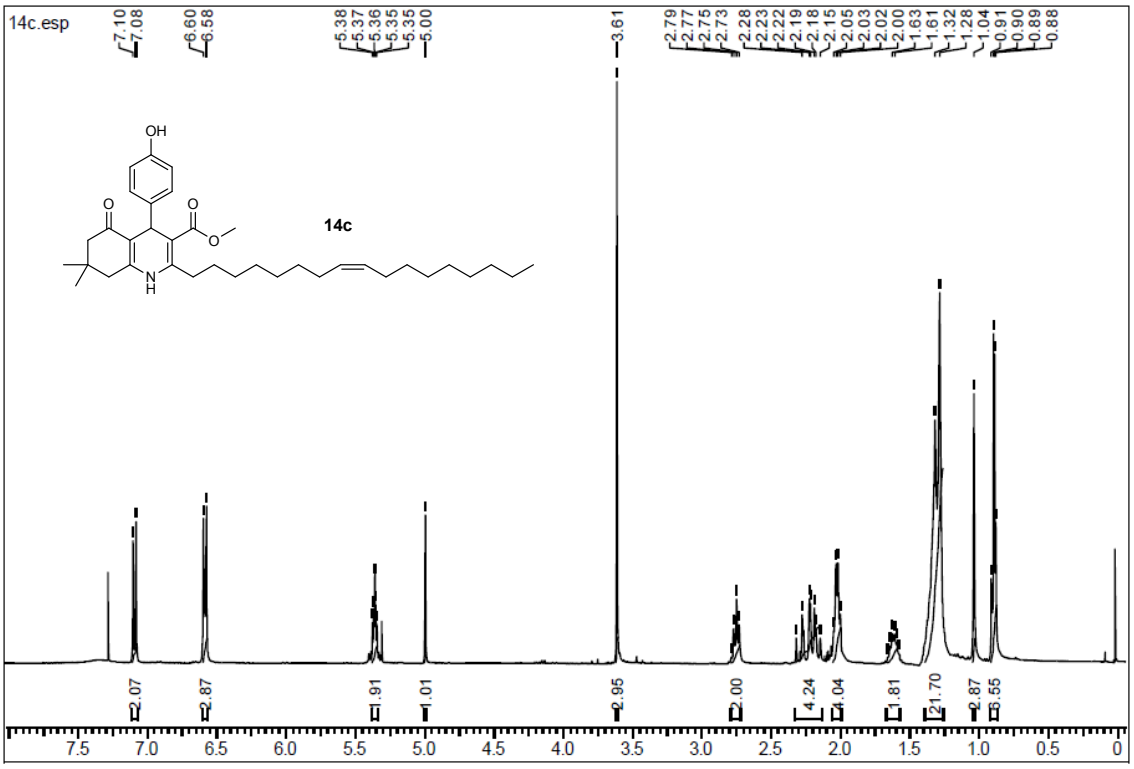

Figure S13.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **14c**.

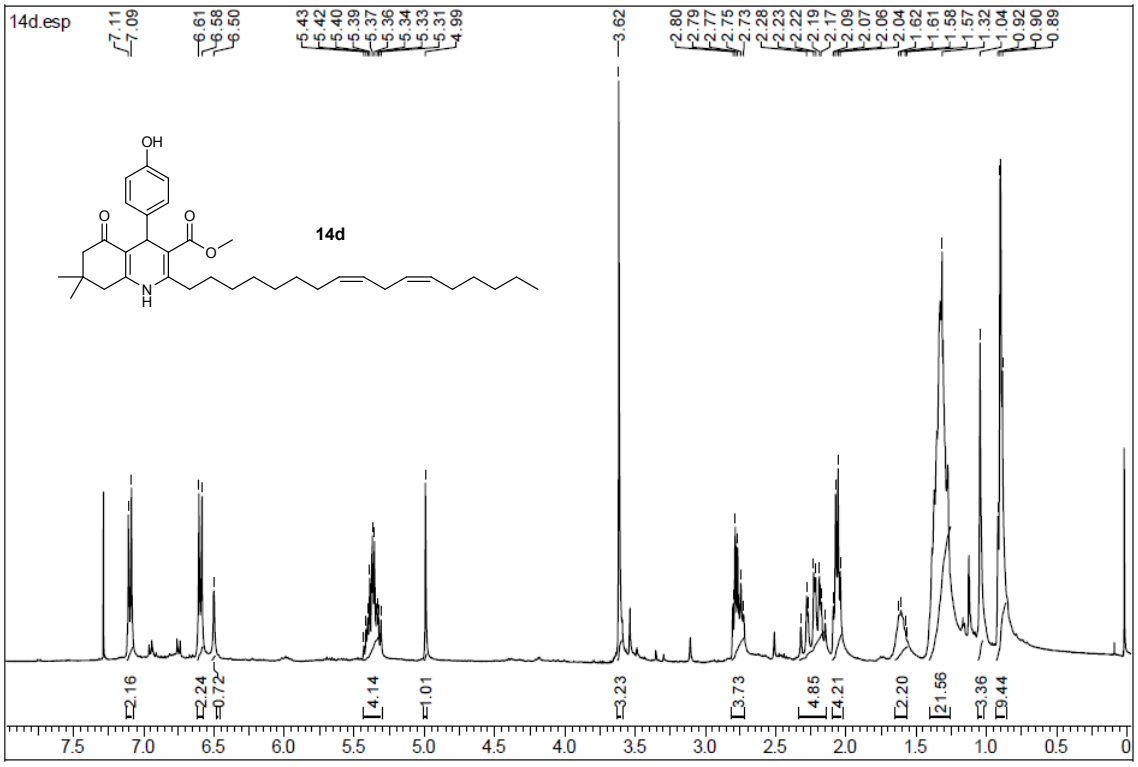

Figure S14.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **14d**.

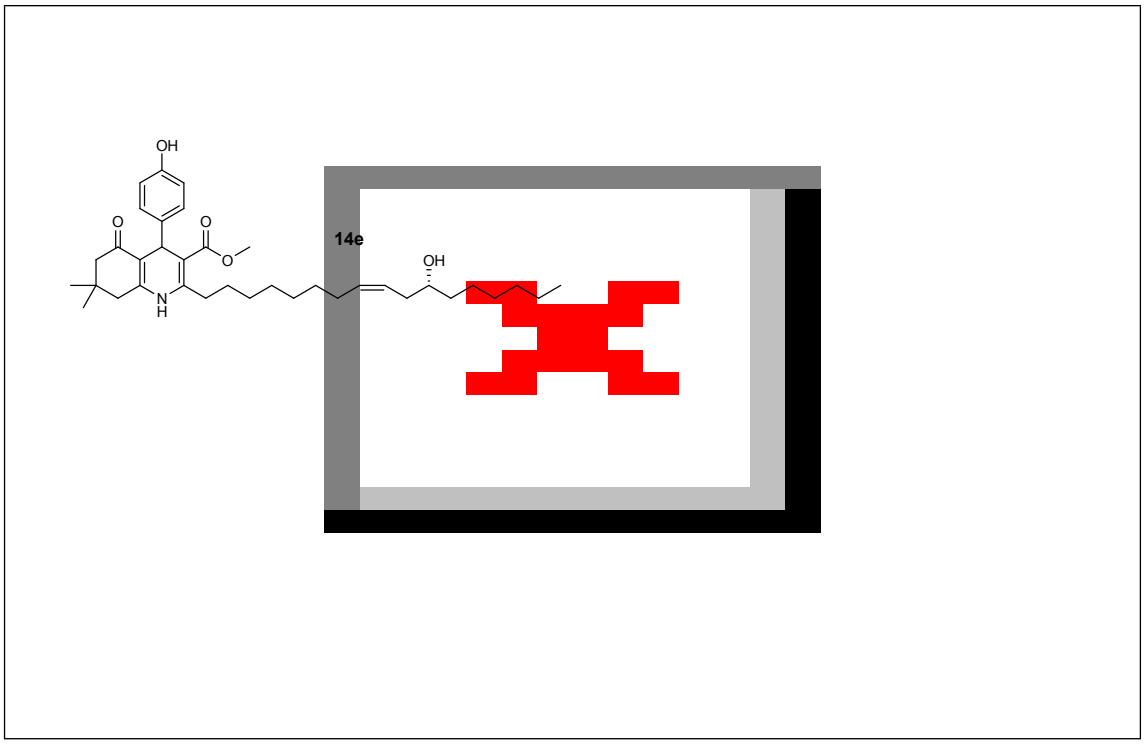

Figure S15. H NMR spectrum ($CDCl_3$, 300 MHz) of **14e**.

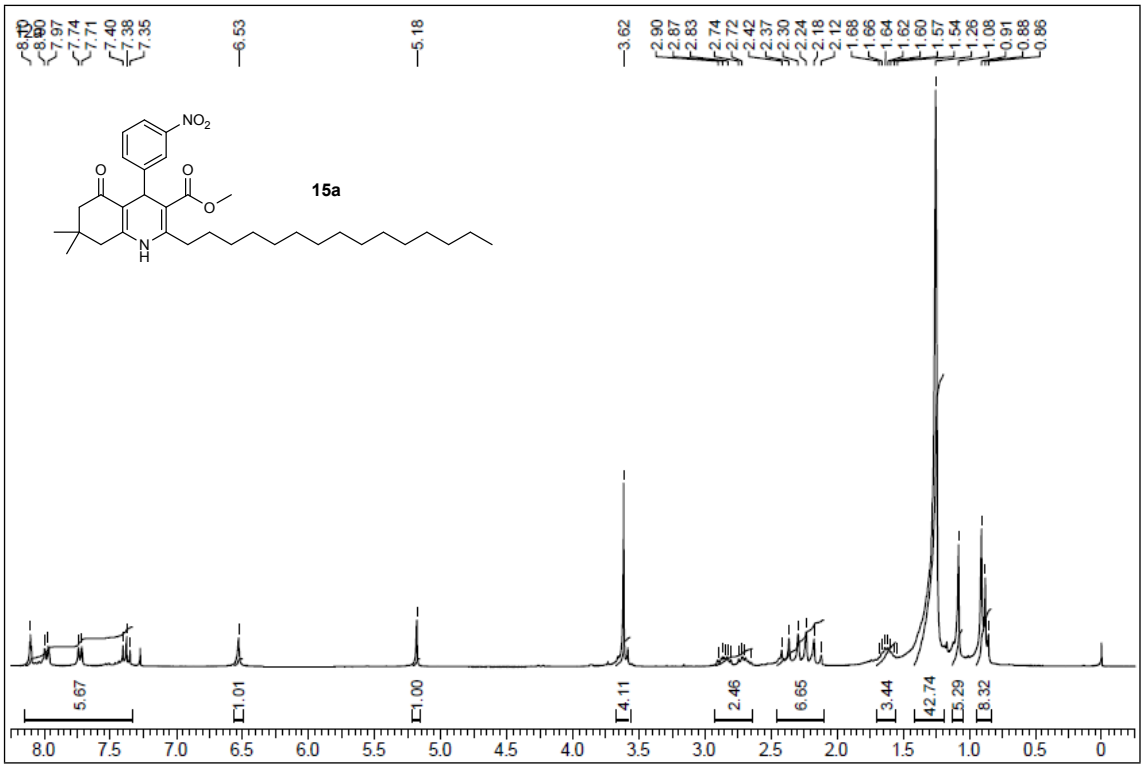

Figure S16.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **15a**.

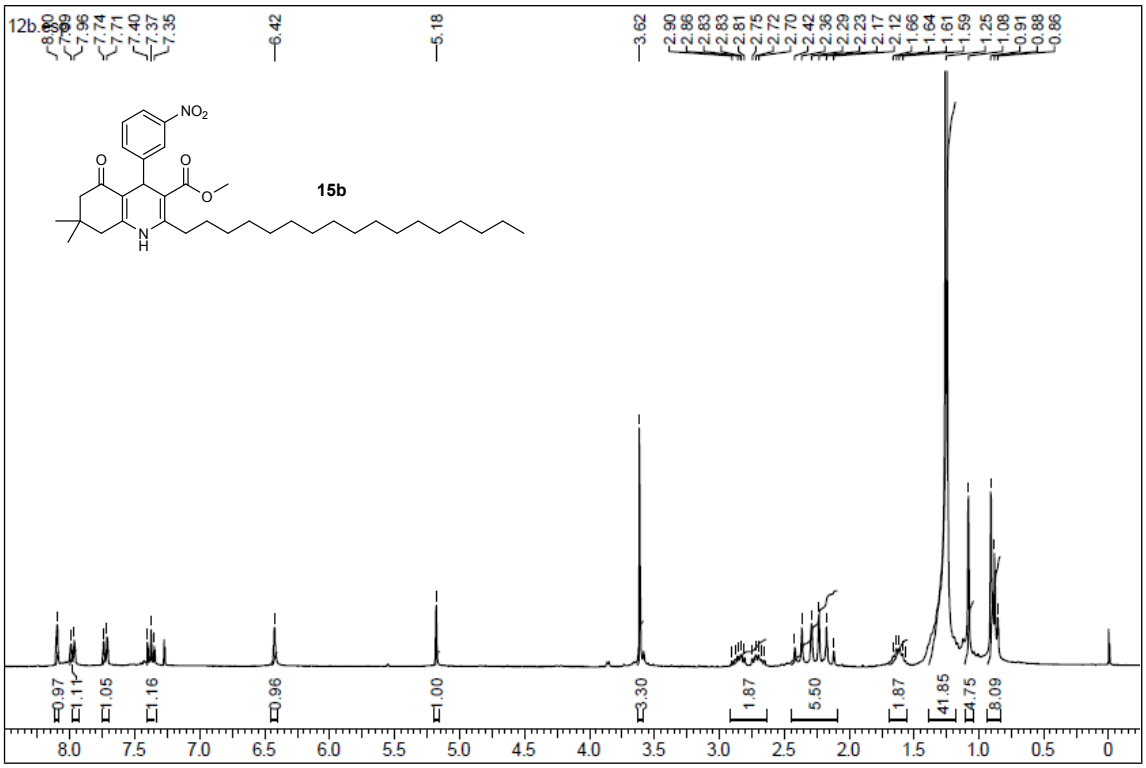

Figure S17.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **15b**.

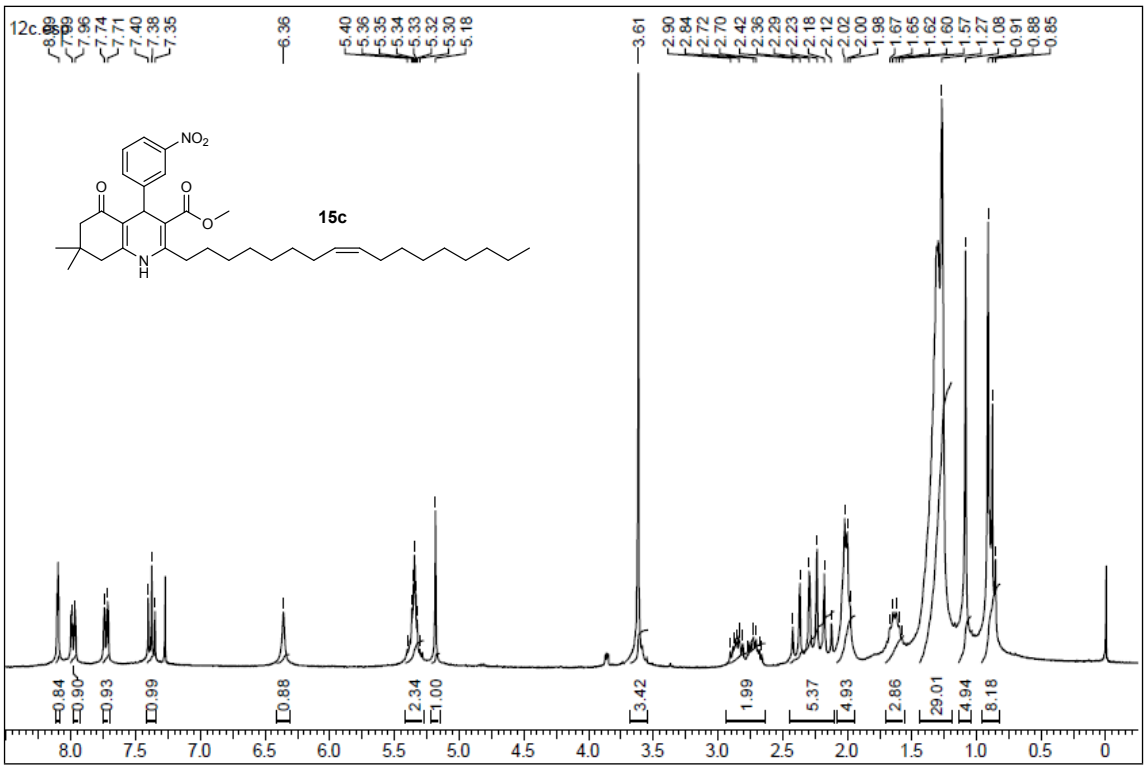

Figure S18.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **15c**.

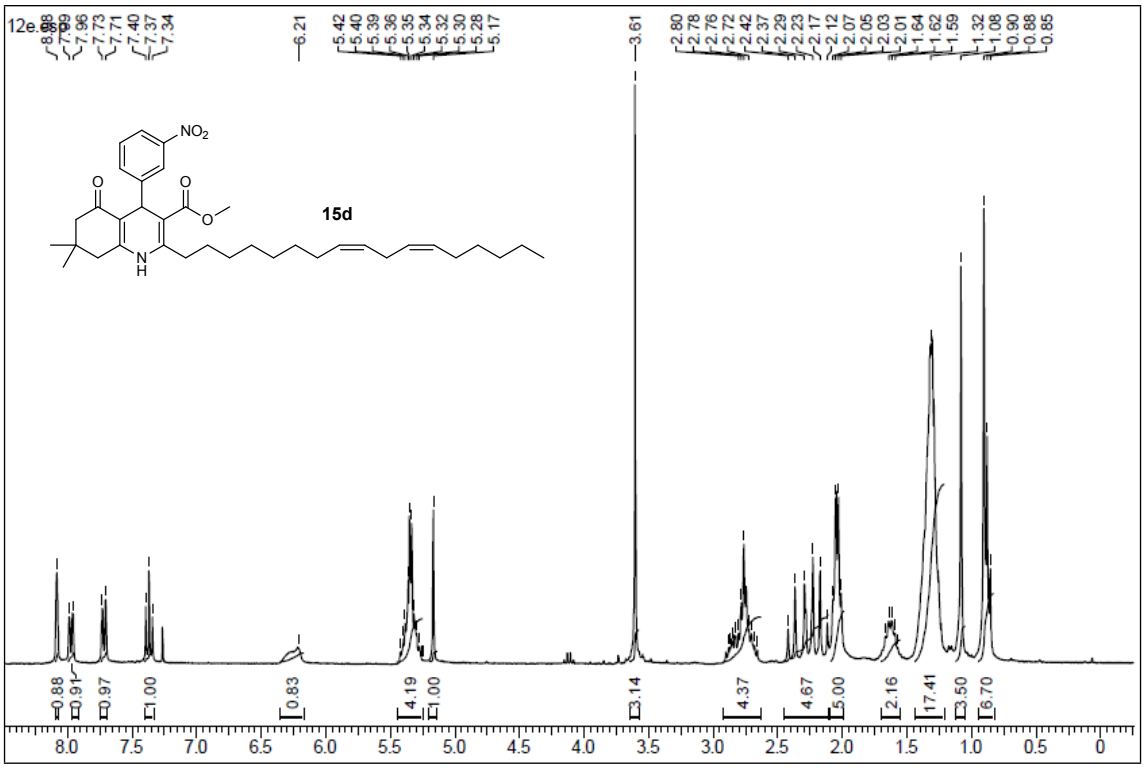

Figure S19.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **15d**.

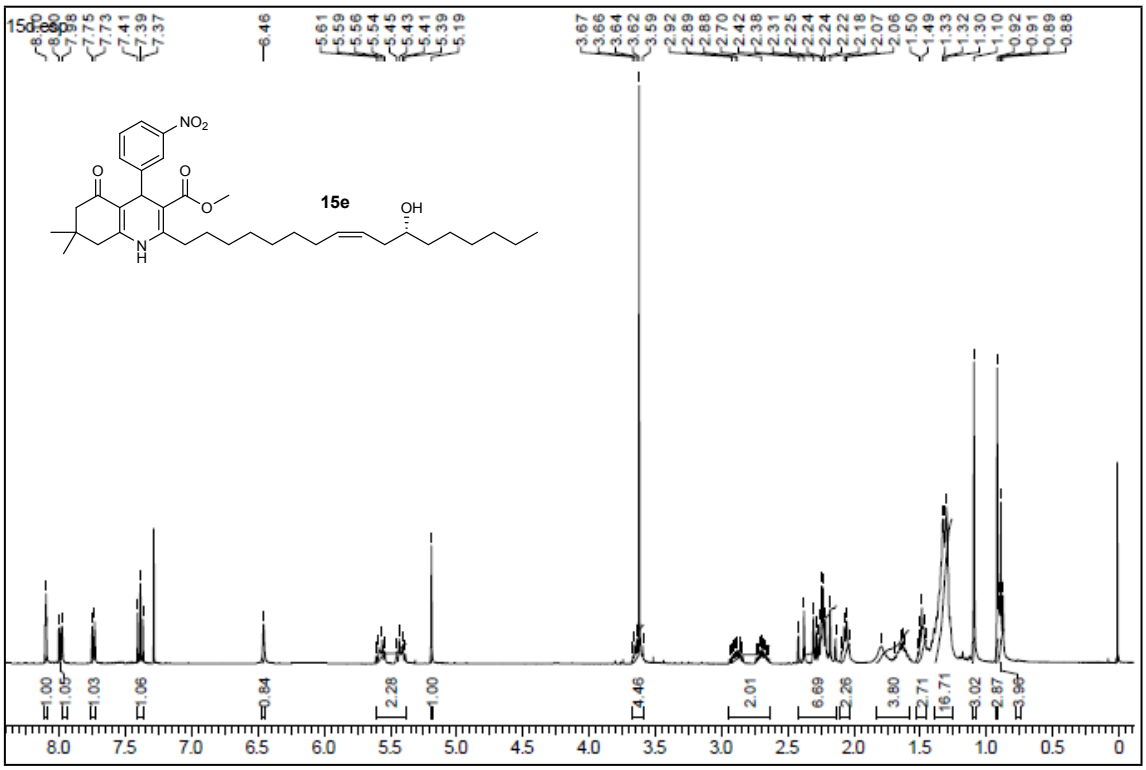

Figure S20.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **15e**.

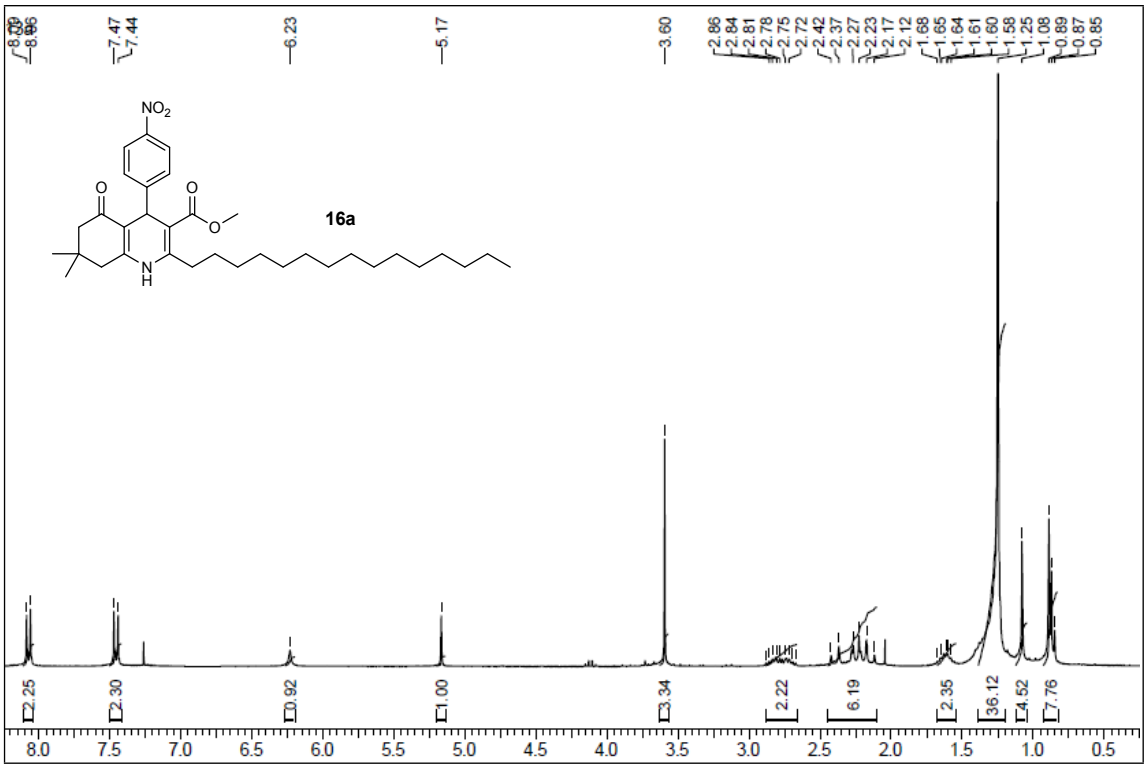

Figure S21.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **16a**.

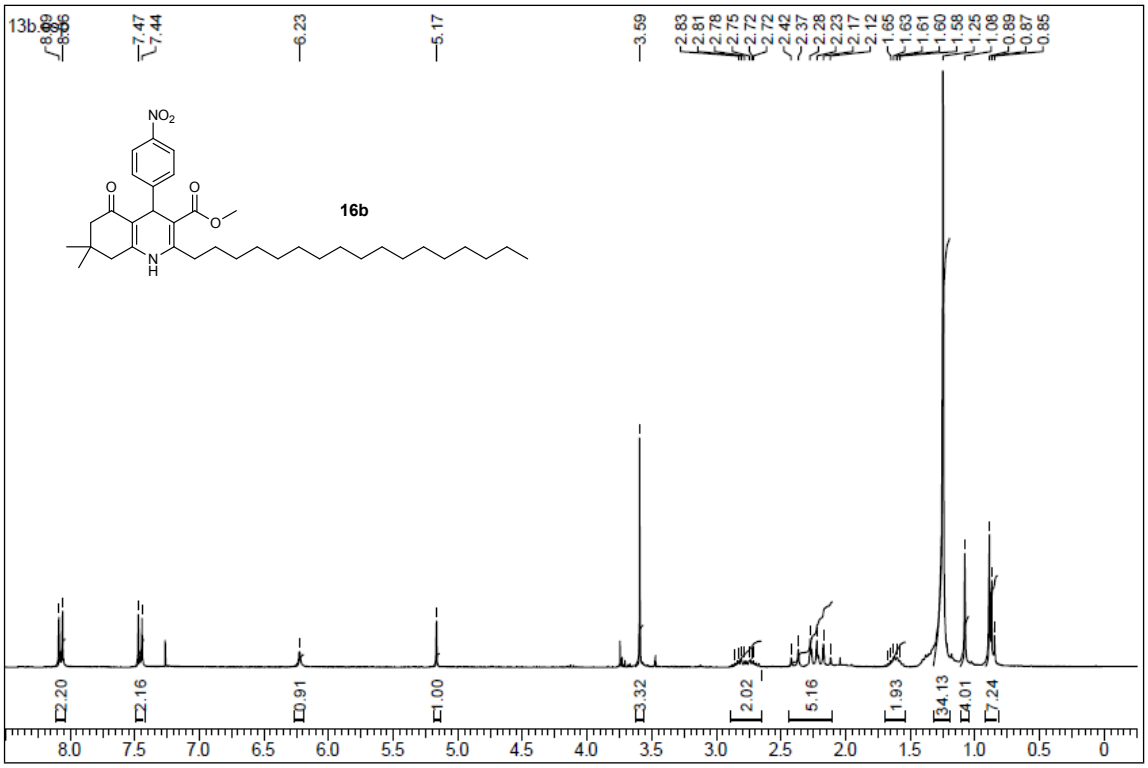

Figure S22.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **16b**.

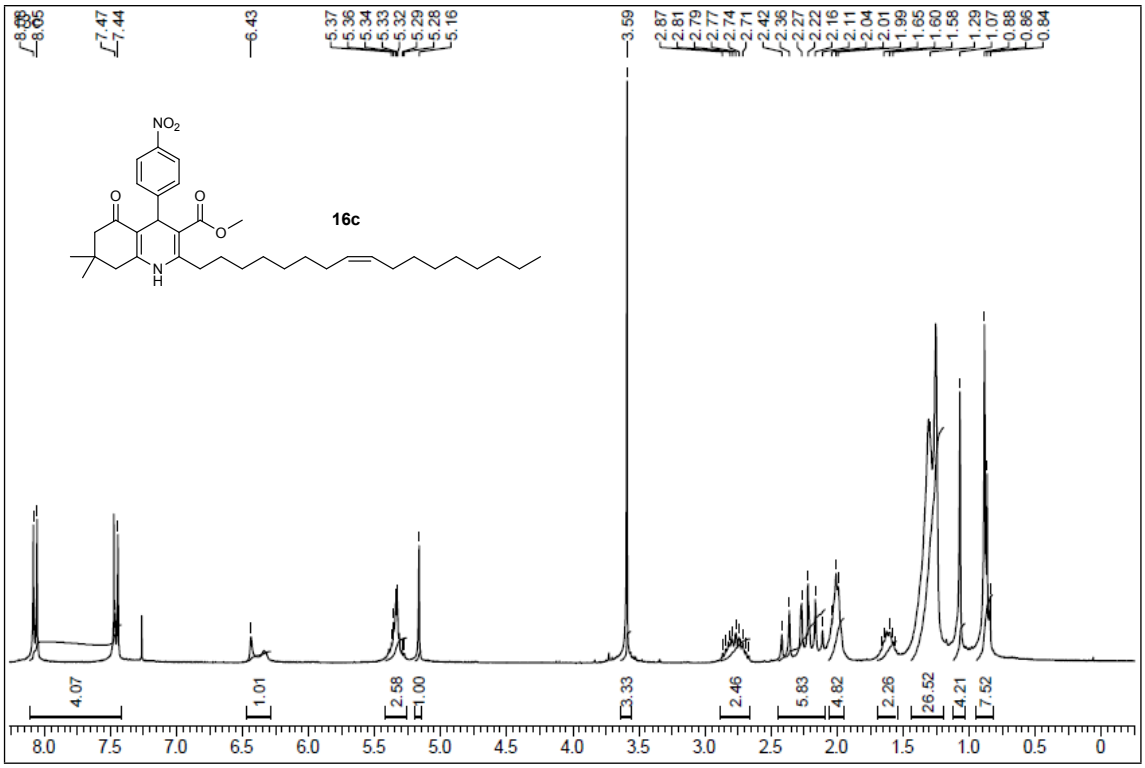

Figure S23.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **16c**.

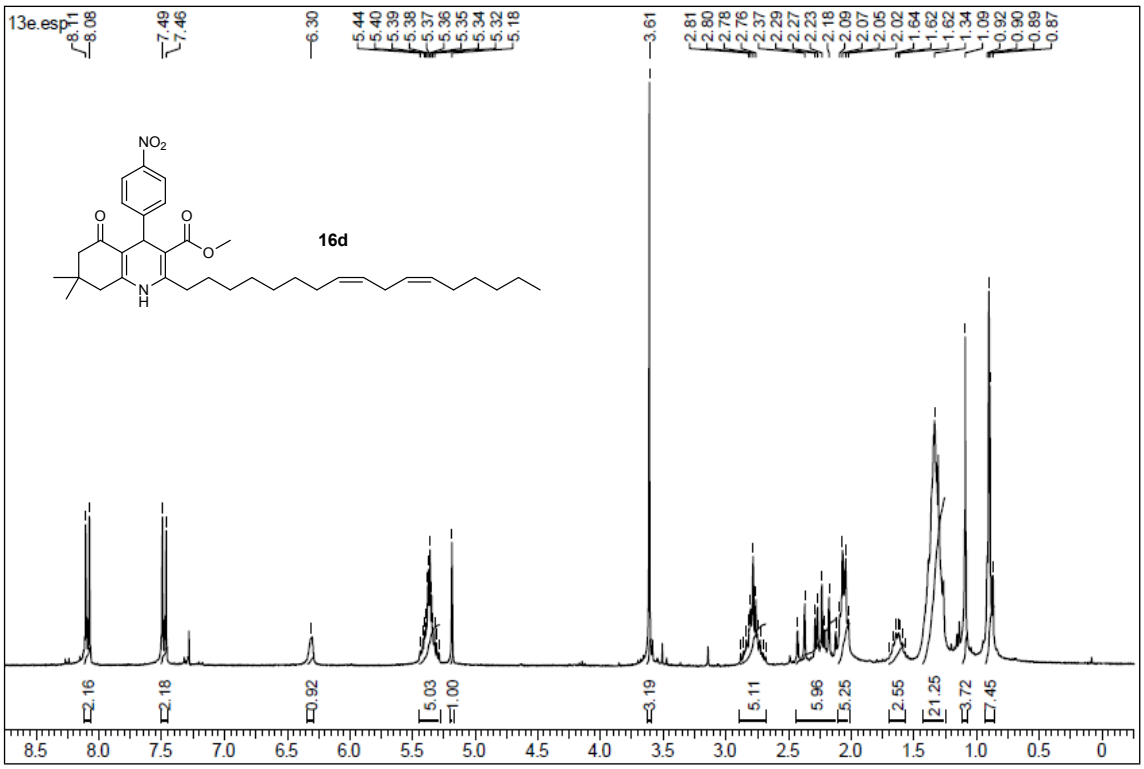

Figure S24.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **16d**.

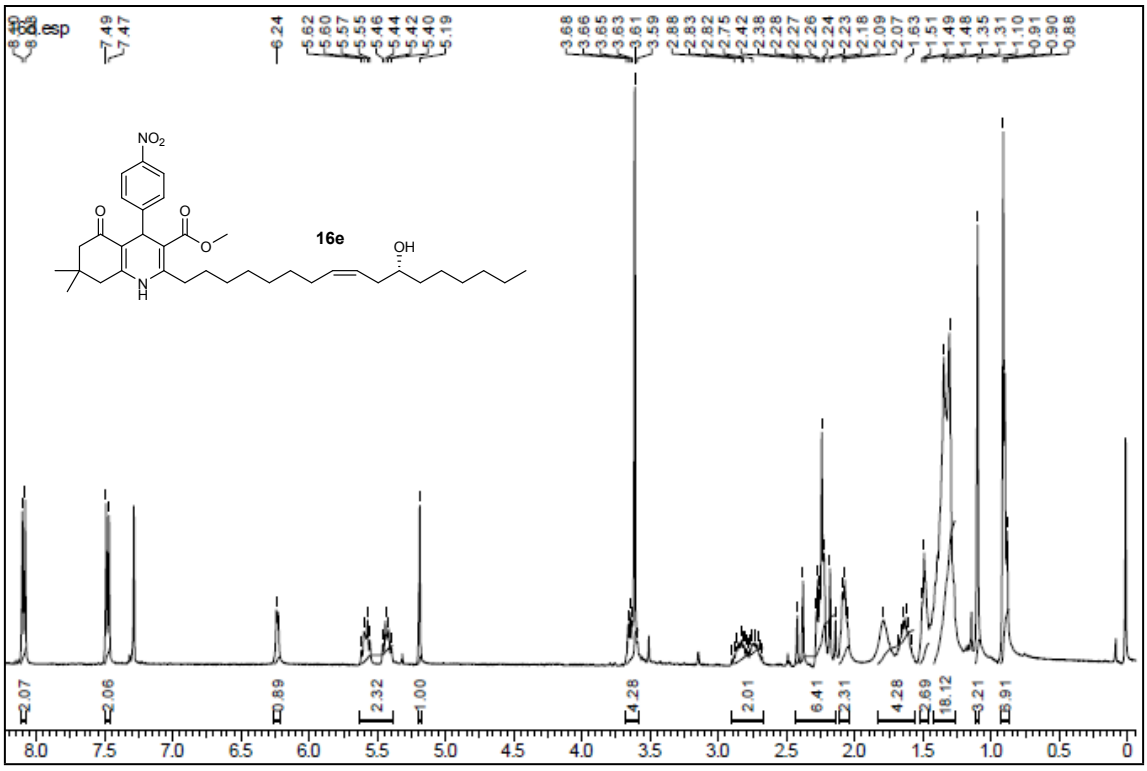

Figure S25.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **16e**.

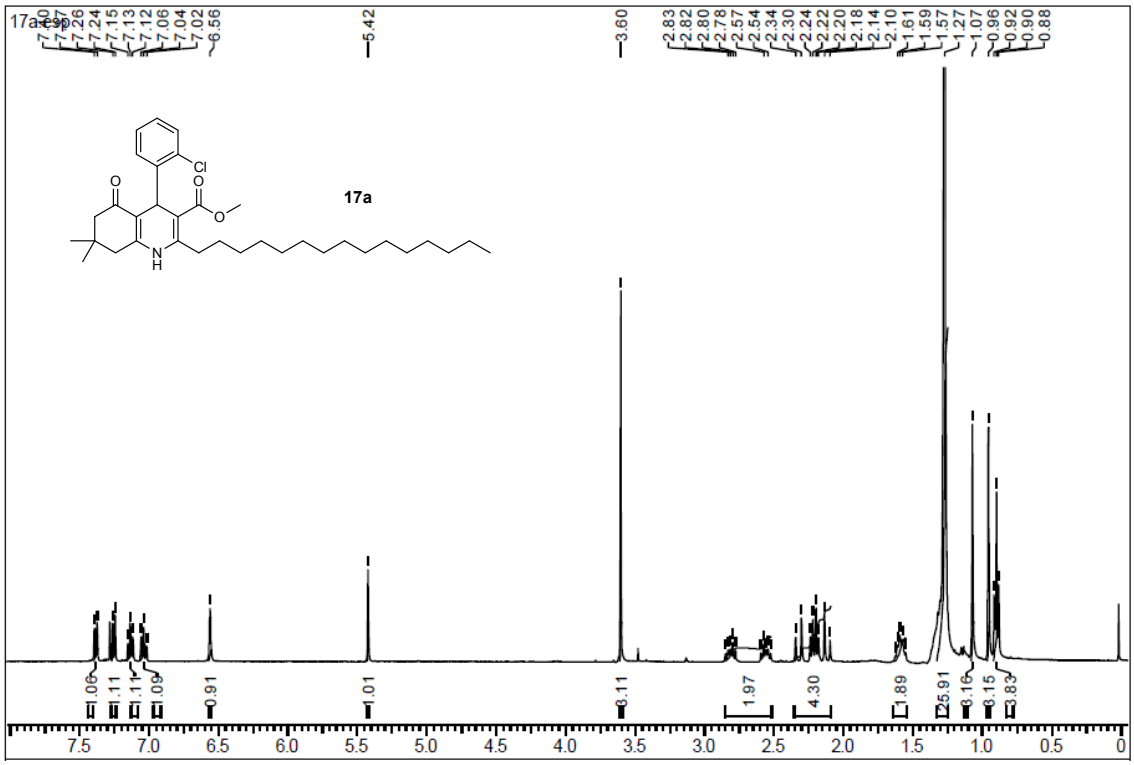

Figure S26.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **17a**.

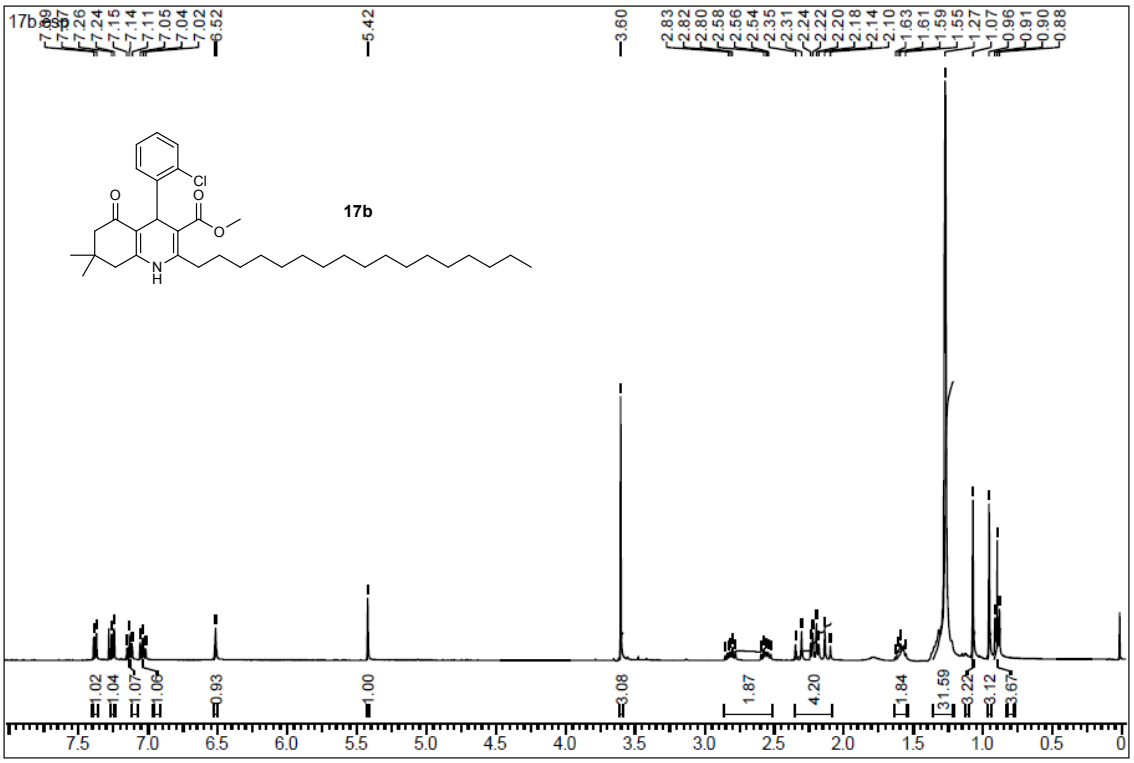

Figure S27.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **17b**.

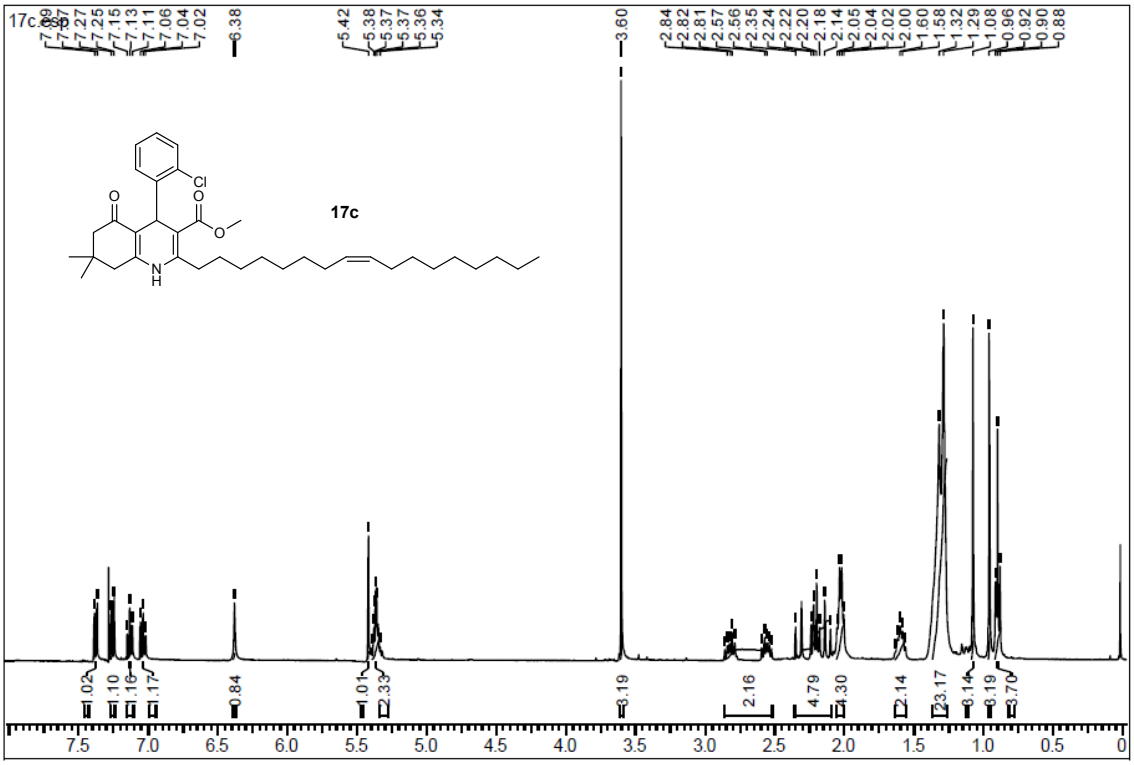

Figure S28.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **17c**.

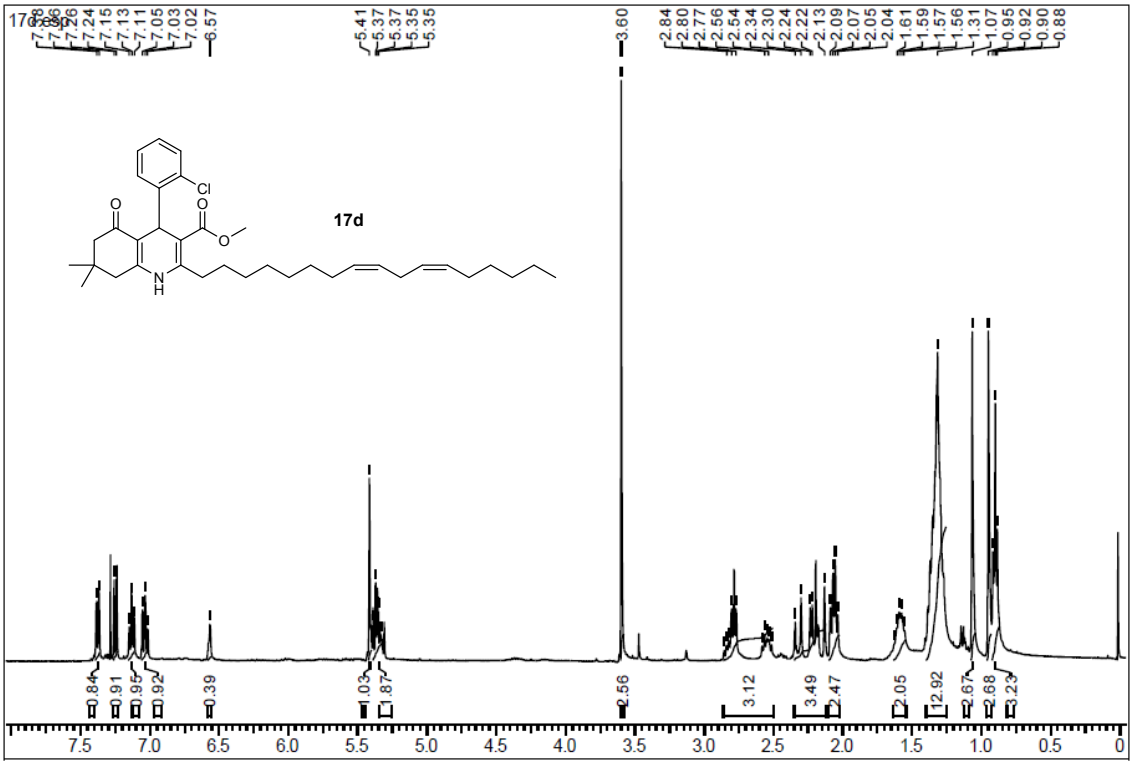

Figure S29.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **17d**.

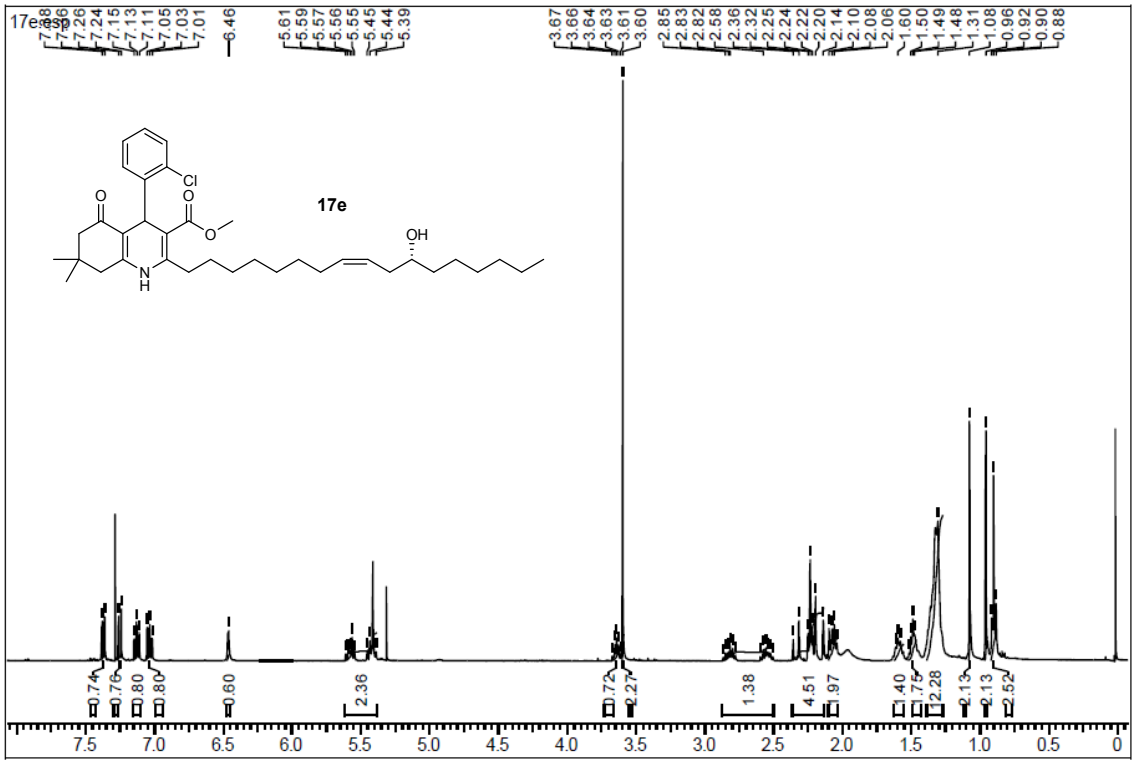

Figure S30.[1]H NMR spectrum ($CDCl_3$, 300 MHz) of **17e**.

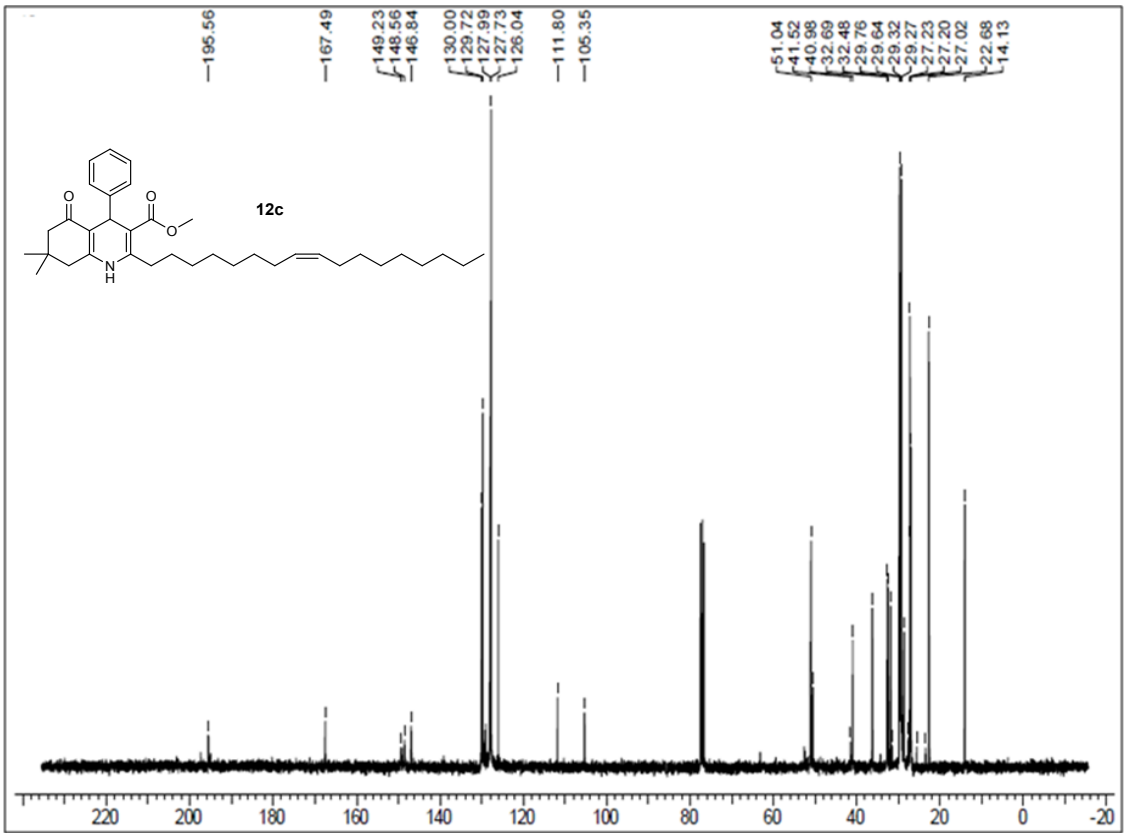

Figure S31.[13]C NMR spectrum ($CDCl_3$, 300 MHz) of **12c**.

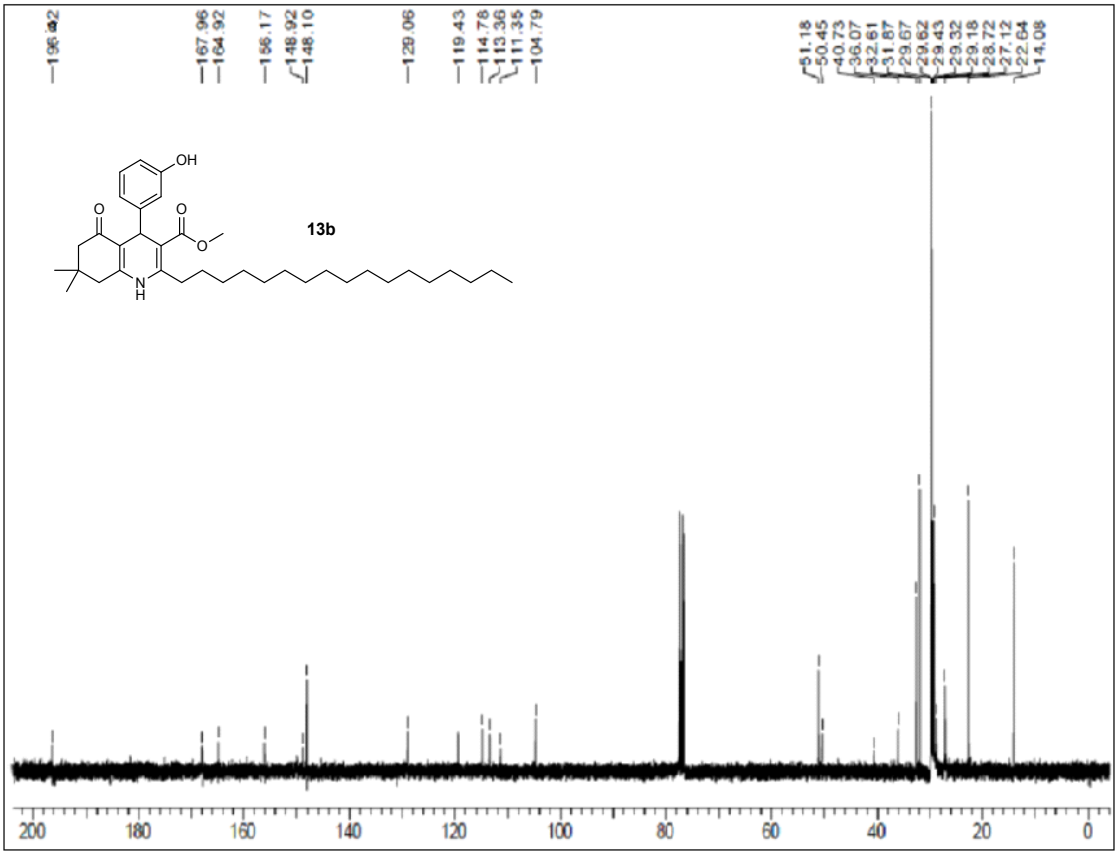

Figure S32.[13]C NMR spectrum ($CDCl_3$, 300 MHz) of **13b**.

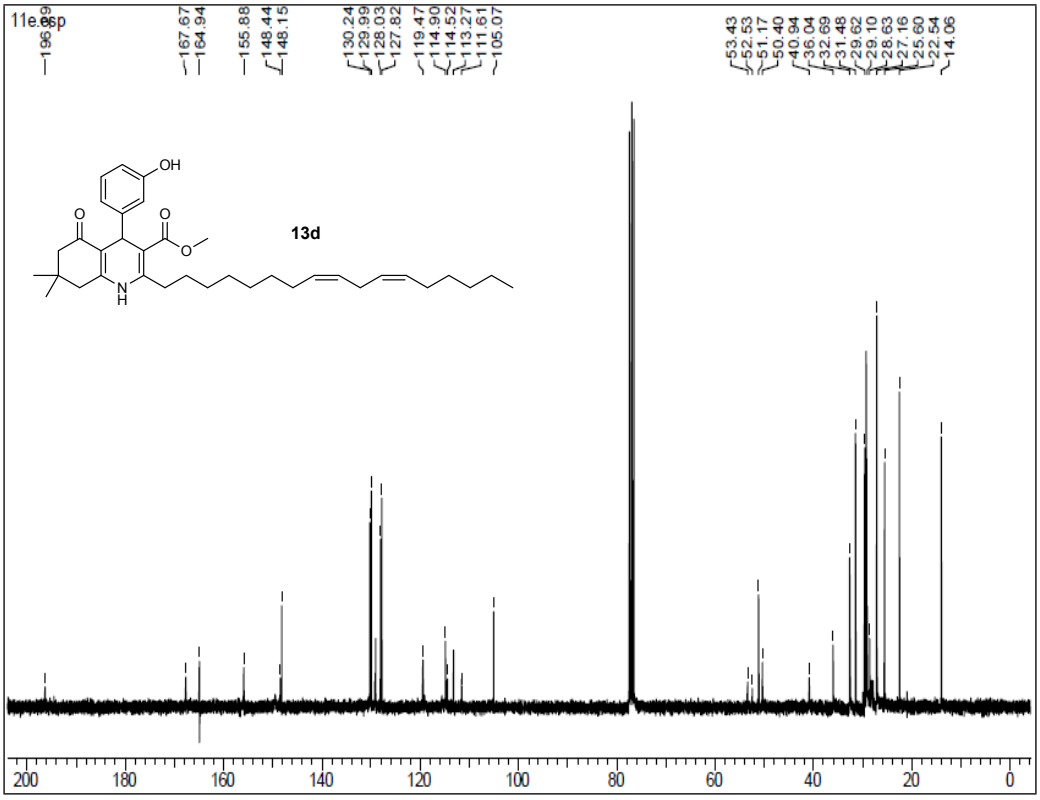

Figure S33. ^{13}C NMR spectrum ($CDCl_3$, 300 MHz) of **13d**.

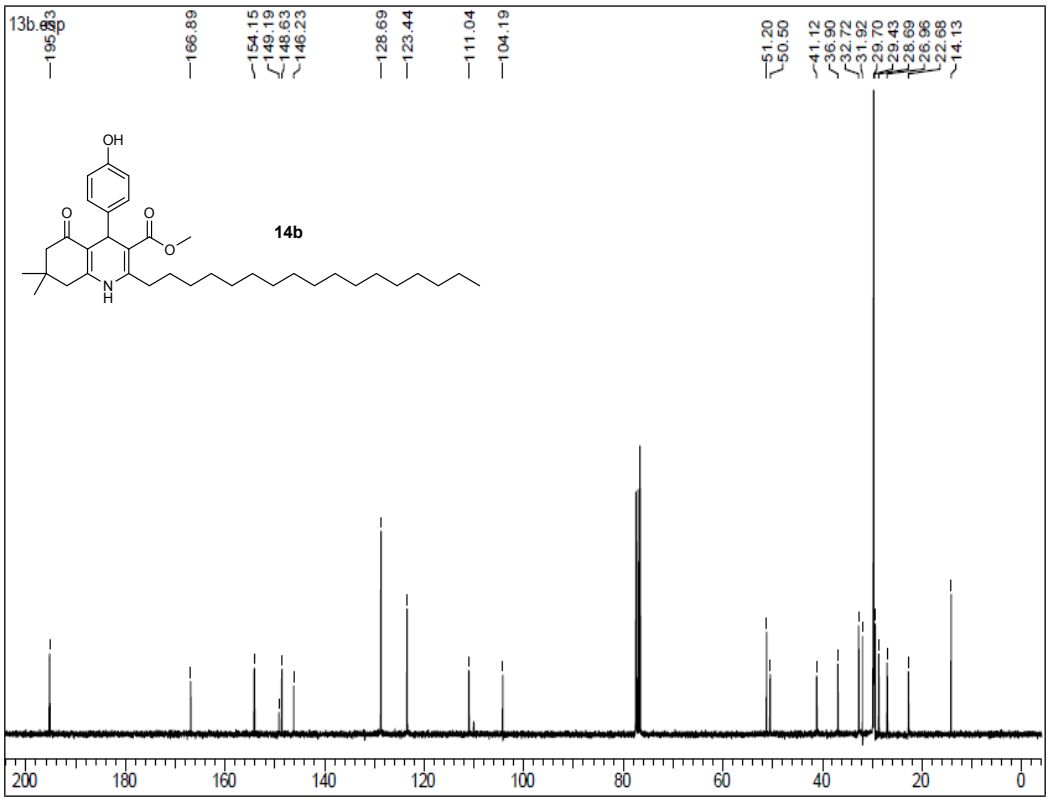

Figure S34. ^{13}C NMR spectrum ($CDCl_3$, 300 MHz) of **14b**.

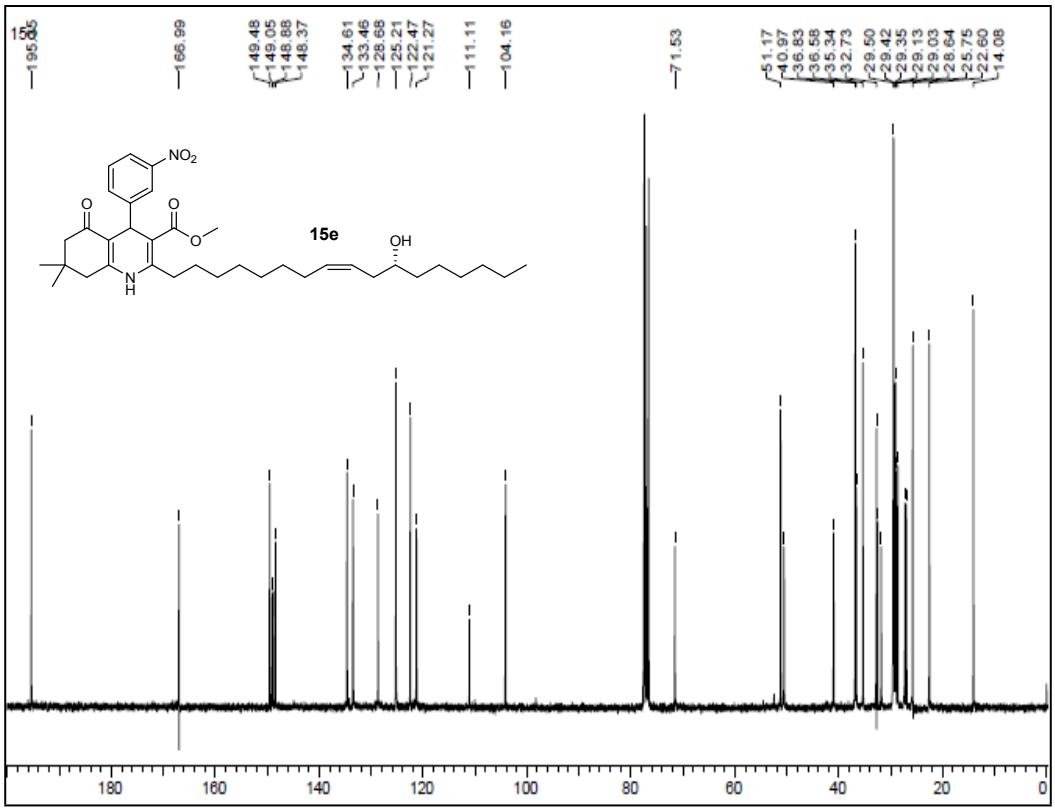

Figure S35.[13]C NMR spectrum ($CDCl_3$, 300 MHz) of **15e**.

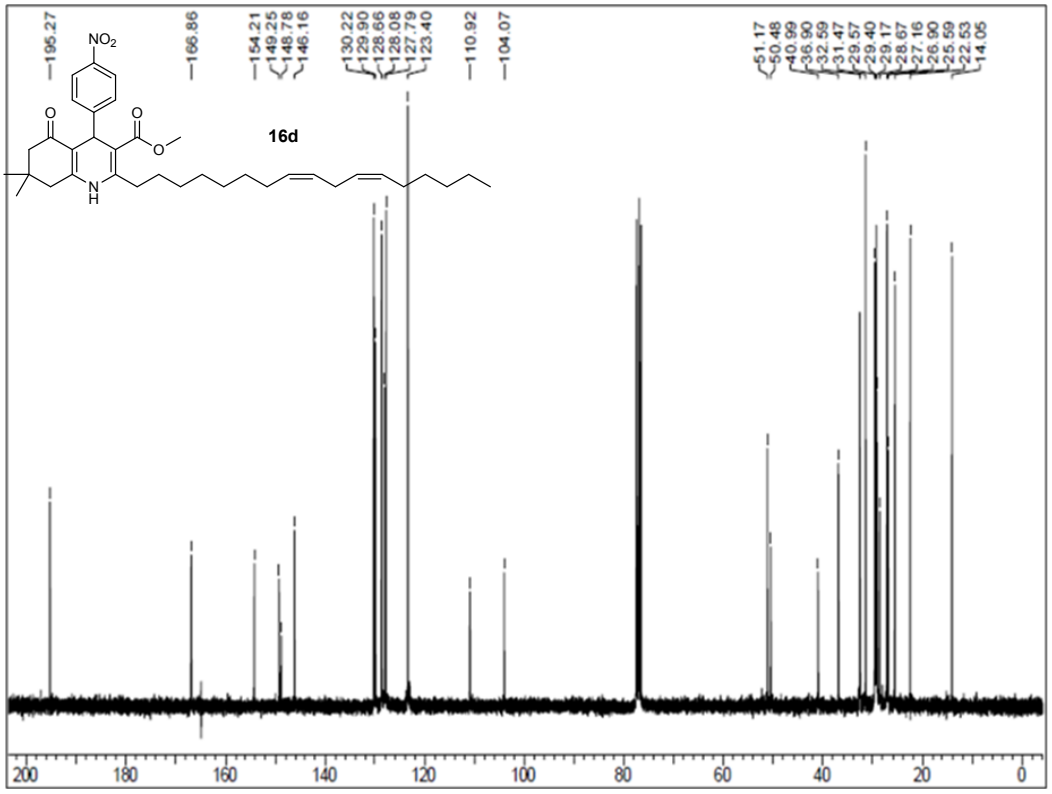

Figure S36.[13]C NMR spectrum ($CDCl_3$, 300 MHz) of **16d**.