

Electronic Supplementary Information (ESI)

Chemo-Enzymatic Synthesis of 11-Hydroxyundecanoic Acid and 1,11-Undecanedioic Acid from Ricinoleic Acid

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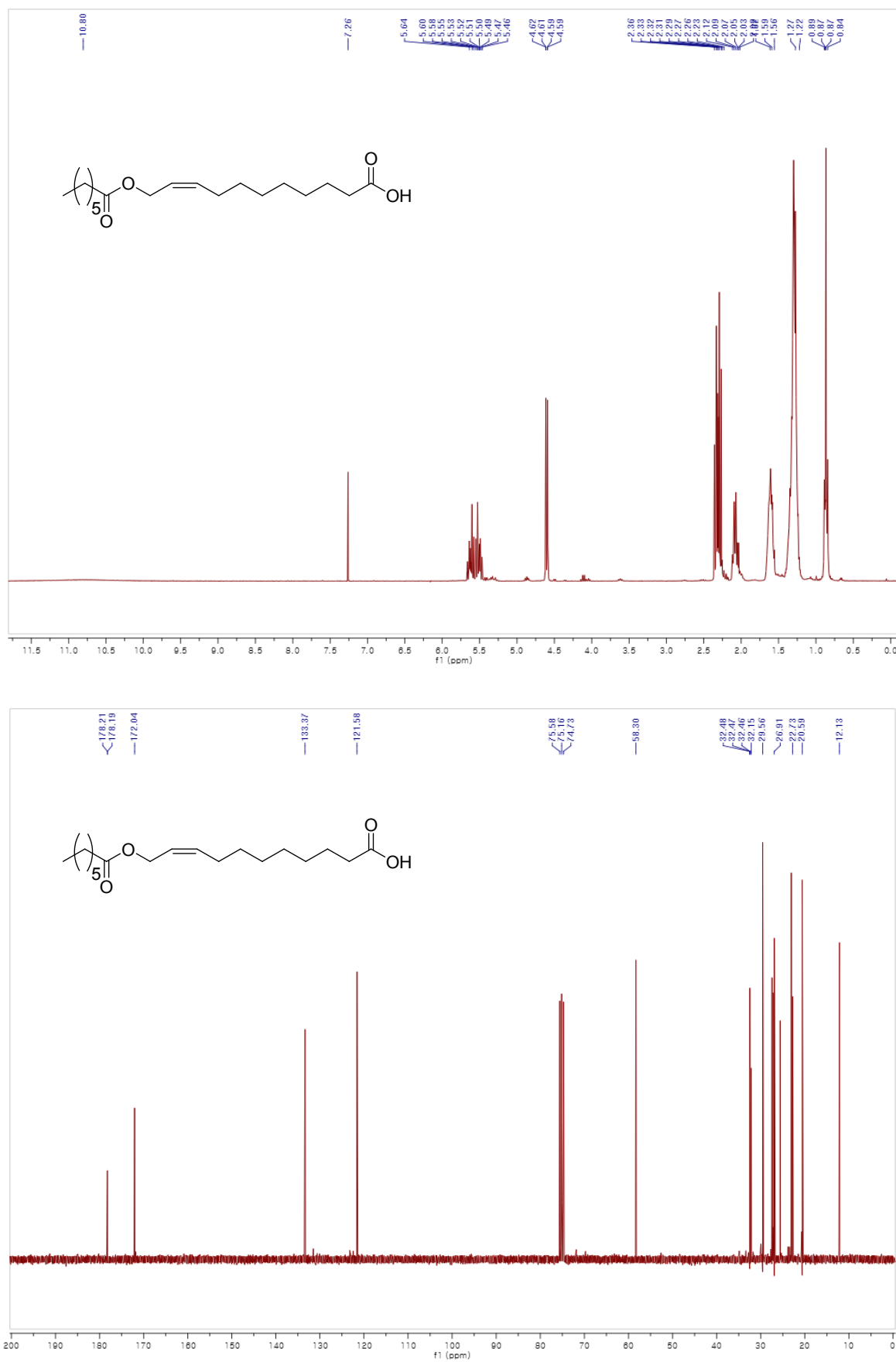


Fig. S1 ¹H and ¹³C (in CDCl₃) NMR spectra of (Z)-11-(heptanoyloxy)undec-9-enoic acid (**3**).

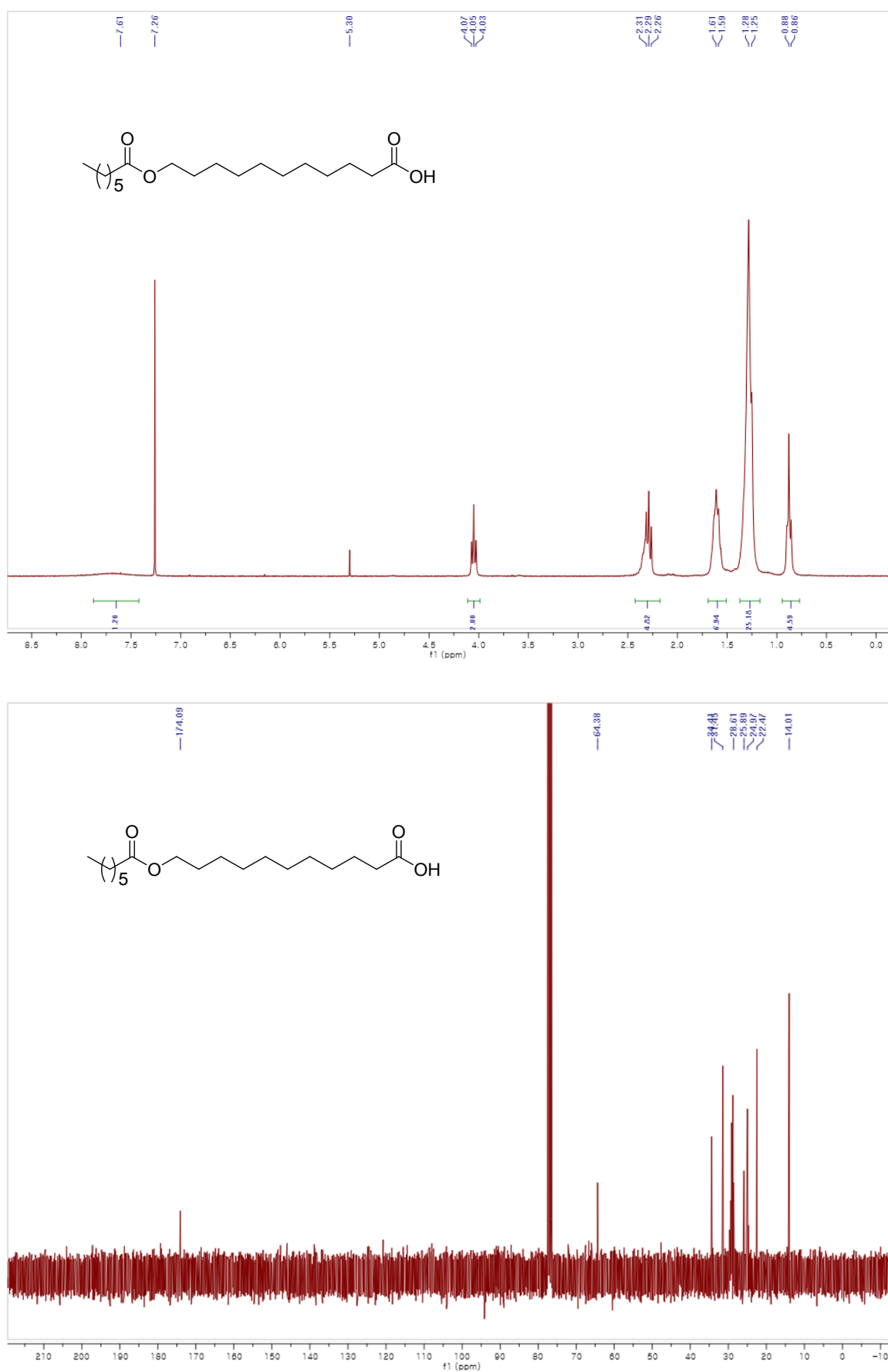


Fig. S2 ¹H and ¹³C (in CDCl₃) NMR spectra of 11-(heptanoyloxy)undecanoic acid (**6**).

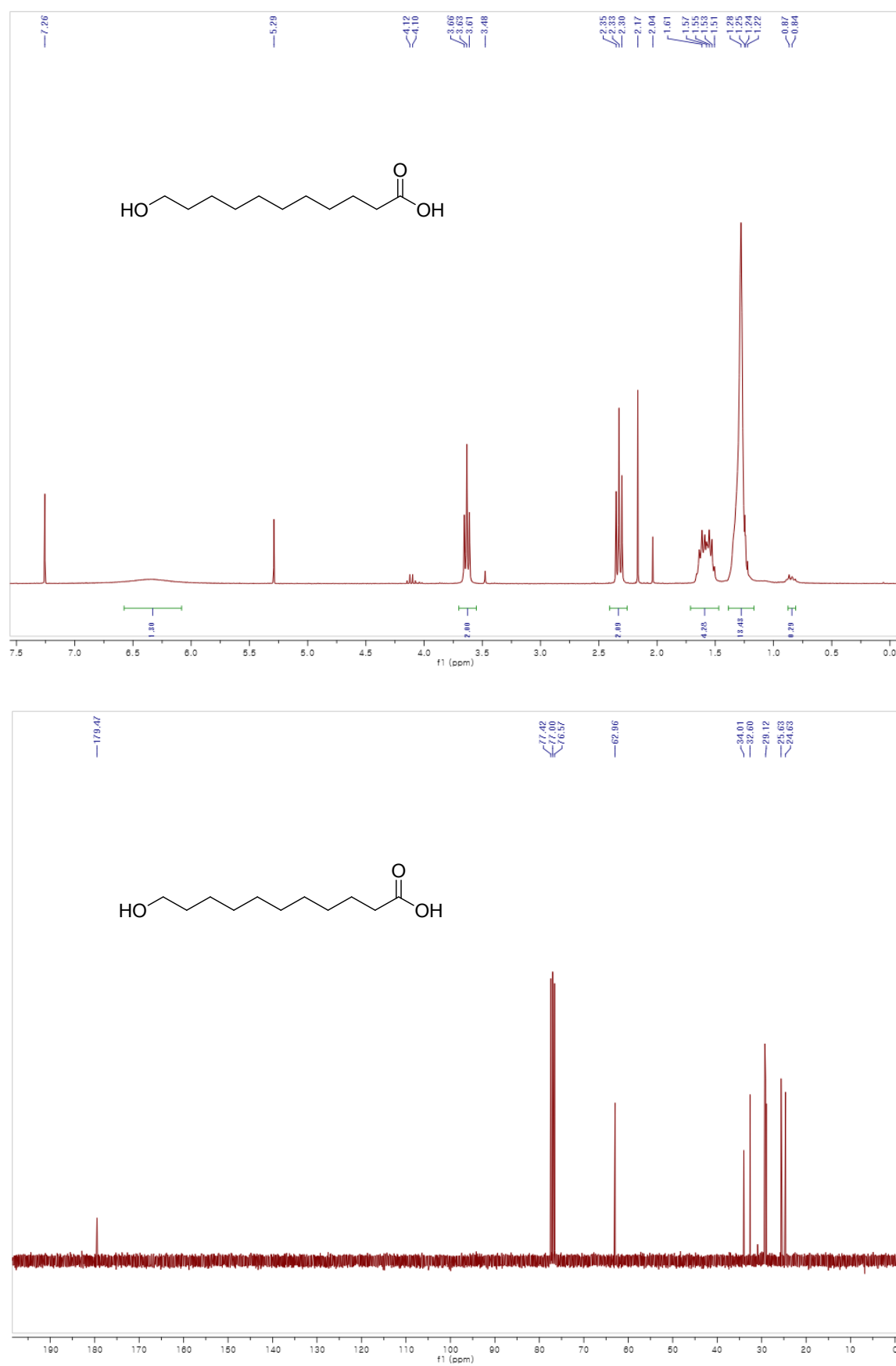


Fig. S3 ¹H and ¹³C (in CDCl₃) NMR spectra of 11-hydroxyundecanoic acid (7).

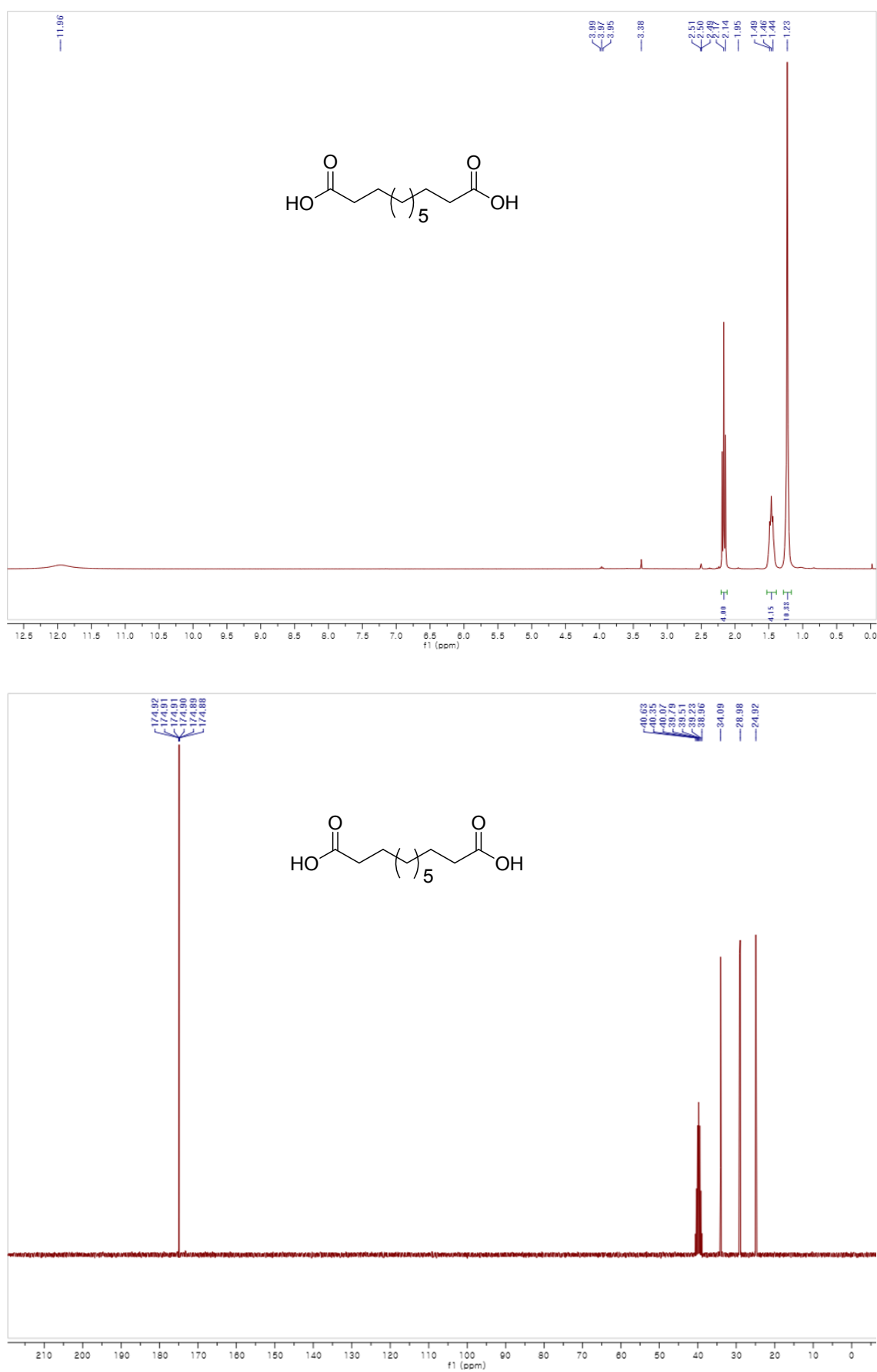


Fig. S4 ^1H and ^{13}C (in $\text{DMSO-}d_6$) NMR spectra of undecanedioic acid (**8**).

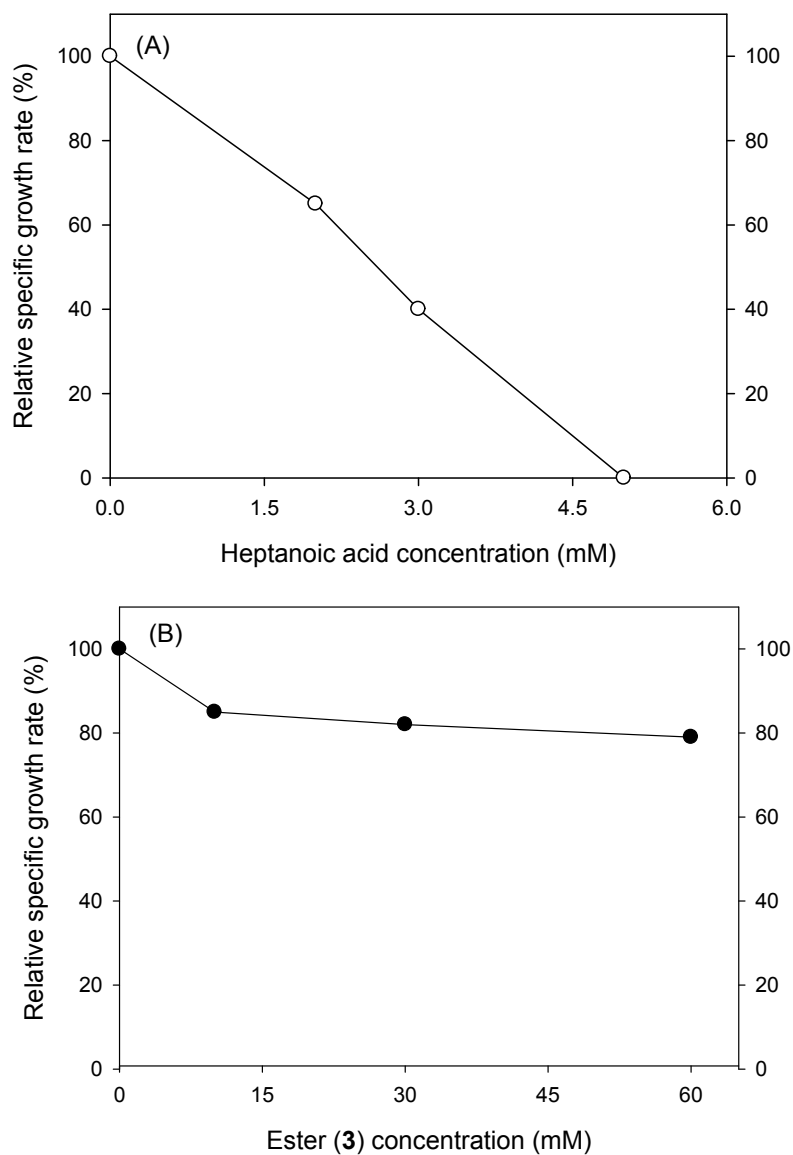


Fig. S5 Effect of heptanoic acid (A) and ester (**3**) concentration (B) on specific growth rate of *E. coli*. 100% indicates the specific growth rate of 0.65 h^{-1} . When the *E. coli* BL21 cultures (100 mL) reached the early exponential growth phase, they were split into 20-mL subcultures, to which different concentrations of heptanoic acid (A) or ester (**3**) (B) were added.