

Supplementary Materials

Bioenzymatic and Chemical Derivatization of Renewable Fatty Acids

Ravi Kumar Akula^{1,2} and Yong-Uk Kwon^{1,*}

¹ Department of Chemistry and Nanoscience, Ewha Womans University, Seoul 03760, Republic of Korea

² Department of Food Science and Engineering, Ewha Womans University, Seoul 03760, Republic of Korea

* Correspondence: yukwon@ewha.ac.kr; Tel.: +82-2-3277-6685

Table of contents

Figure S1. ¹ H NMR spectrum of (Z)-11-hydroxyundec-9-enoic acid (4) -----	S2
Figure S2. ¹³ C NMR spectrum of (Z)-11-hydroxyundec-9-enoic acid (4) -----	S2
Figure S3. ¹ H NMR spectrum of methyl heptanoate (5) -----	S3
Figure S4. ¹³ C NMR spectrum of methyl heptanoate (5) -----	S3
Figure S5. ¹ H NMR spectrum of benzyl 11-hydroxyundecanoate (9) -----	S4
Figure S6. ¹ H NMR spectrum of benzyl 11-(tosyloxy)undecanoate (10) -----	S4
Figure S7. ¹³ C NMR spectrum of benzyl 11-(tosyloxy)undecanoate (10) -----	S5
Figure S8. ¹ H NMR spectrum of benzyl 11-azidoundecanoate (11) -----	S5
Figure S9. ¹³ C NMR spectrum of Benzyl 11-azidoundecanoate (11) -----	S6
Figure S10. ¹ H NMR spectrum of 11-aminoundecanoic acid (12) -----	S6

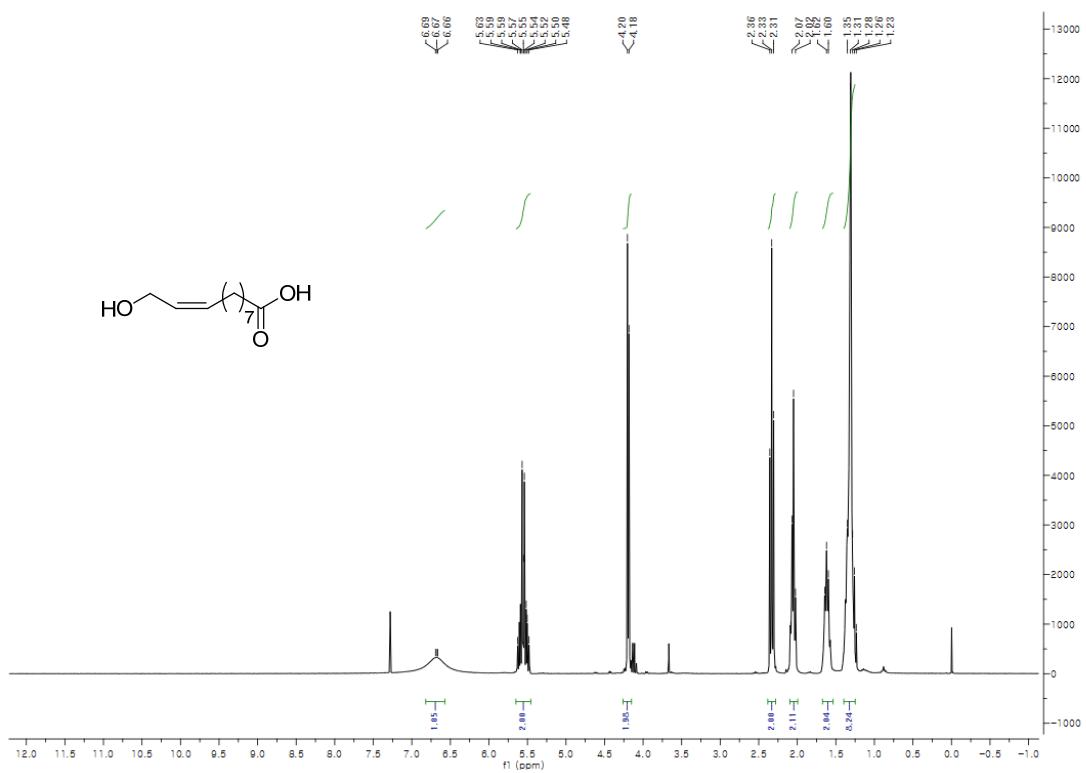


Figure S1. ^1H NMR spectrum of (Z)-11-hydroxyundec-9-enoic acid (4).

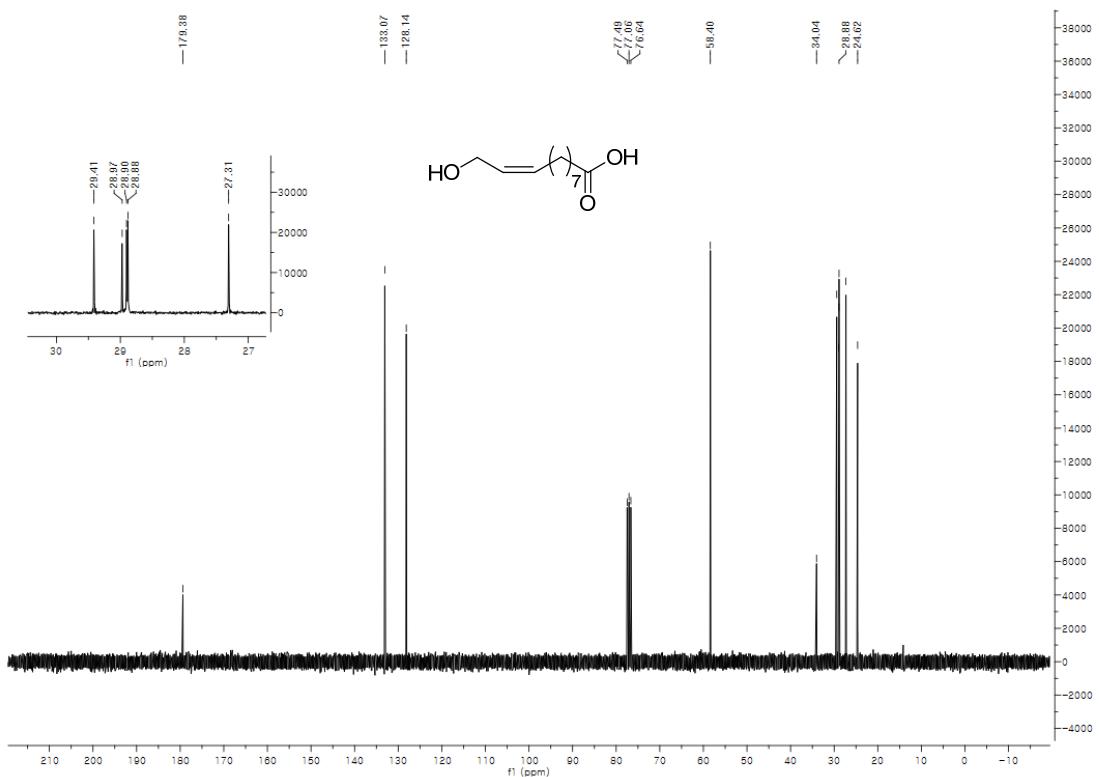


Figure S2. ^{13}C NMR spectrum of (Z)-11-hydroxyundec-9-enoic acid (4).

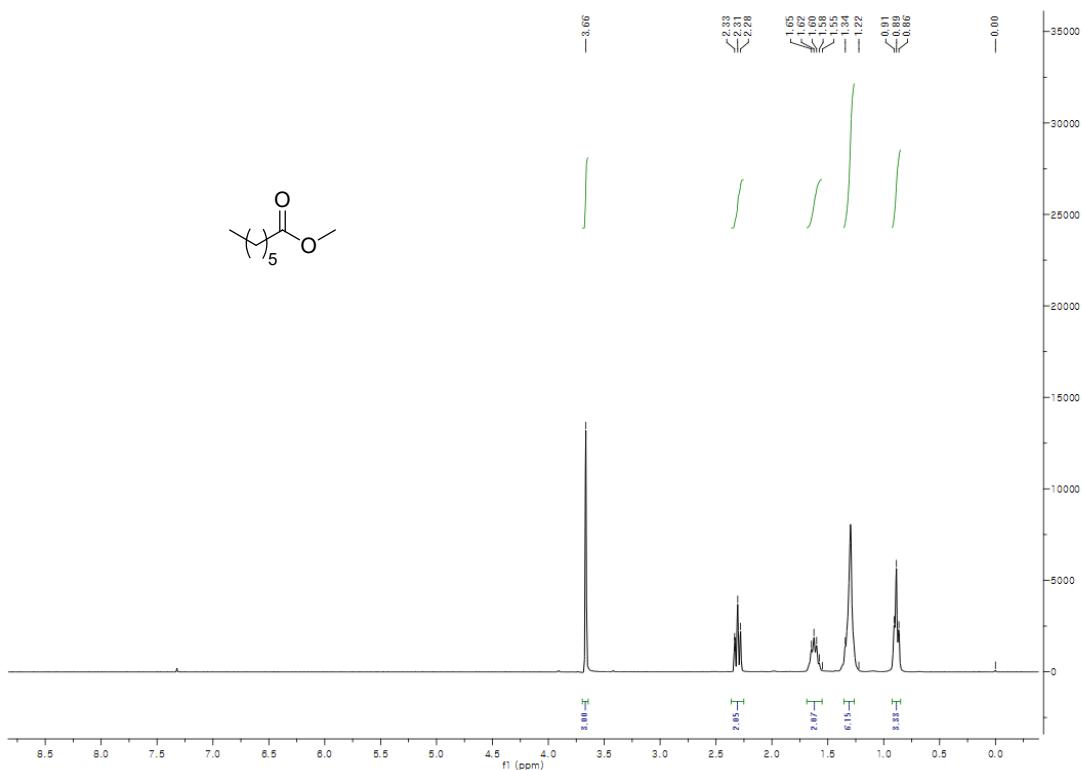


Figure S3. ^1H NMR spectrum of methyl heptanoate (**5**).

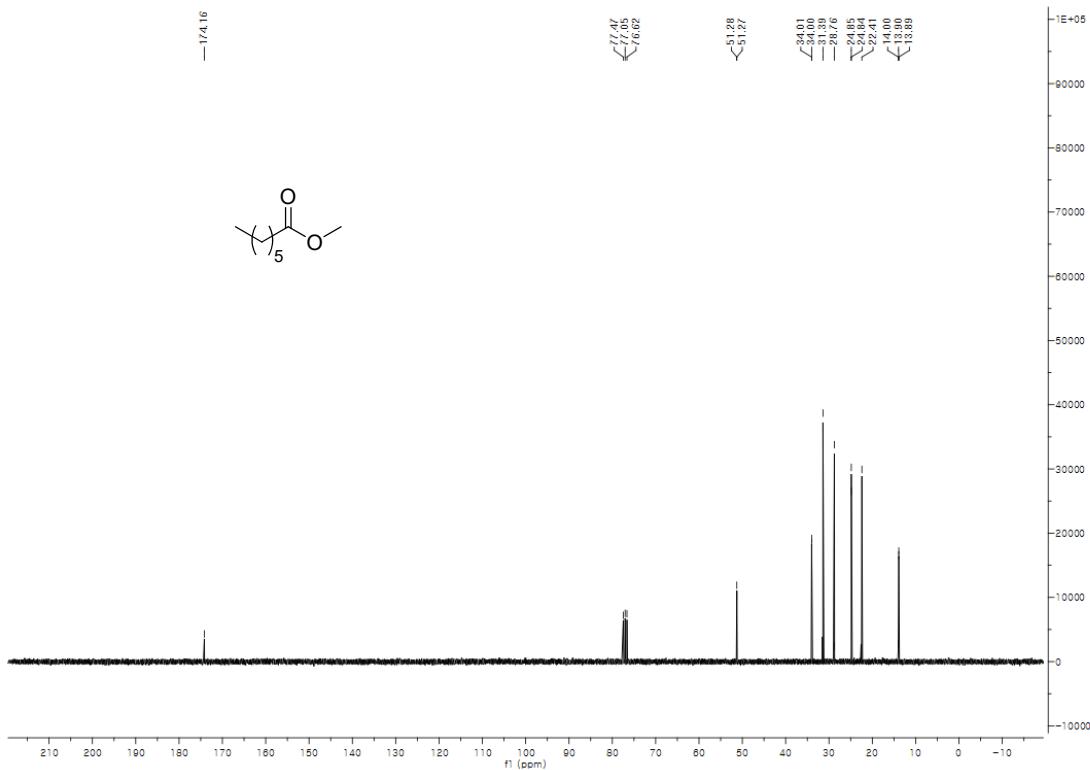


Figure S4. ^{13}C NMR spectrum of methyl heptanoate (**5**).

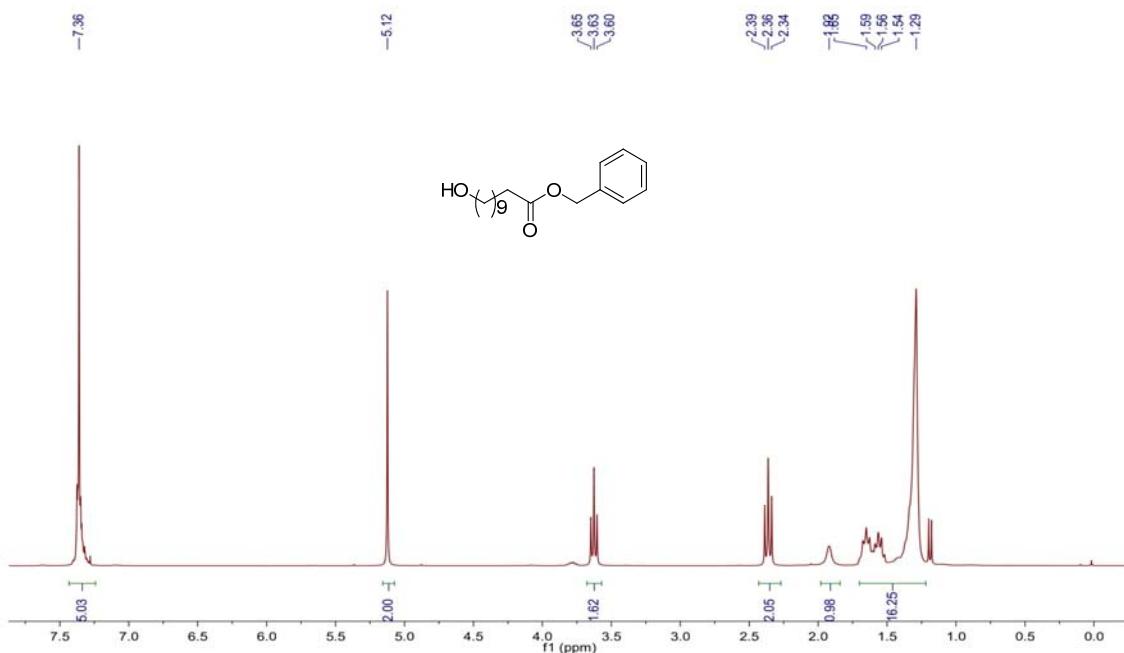


Figure S5. ¹H NMR spectrum of benzyl 11-hydroxyundecanoate (**9**).

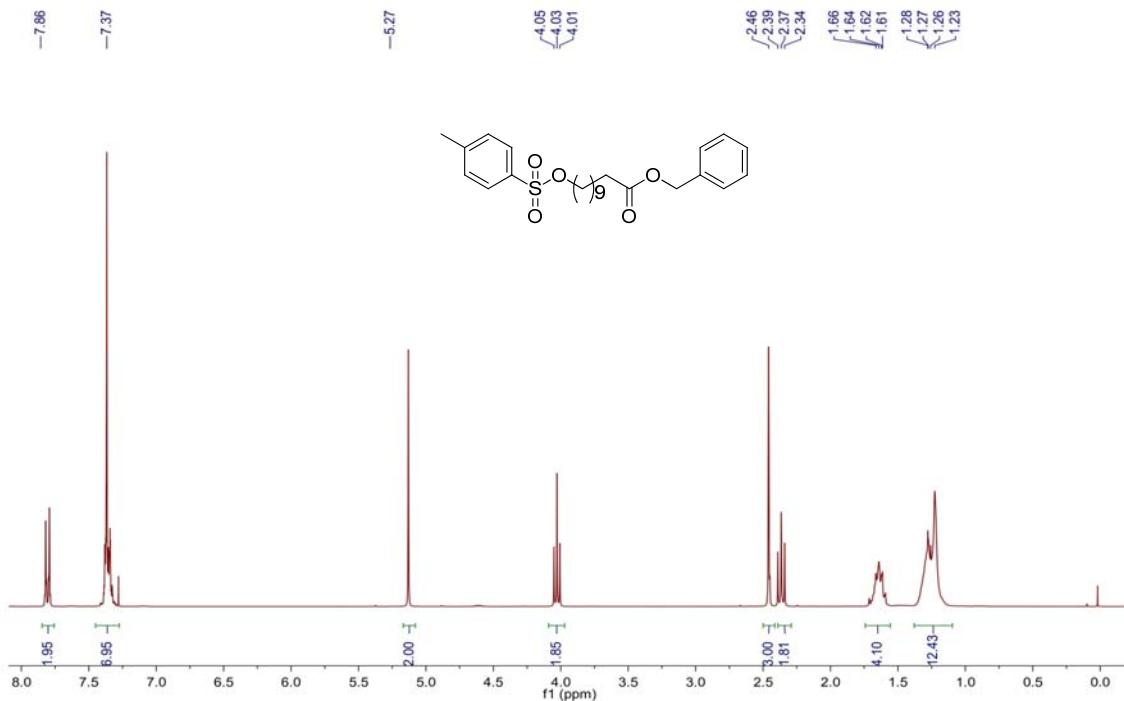


Figure S6. ¹H NMR spectrum of benzyl 11-(tosyloxy)undecanoate (**10**).

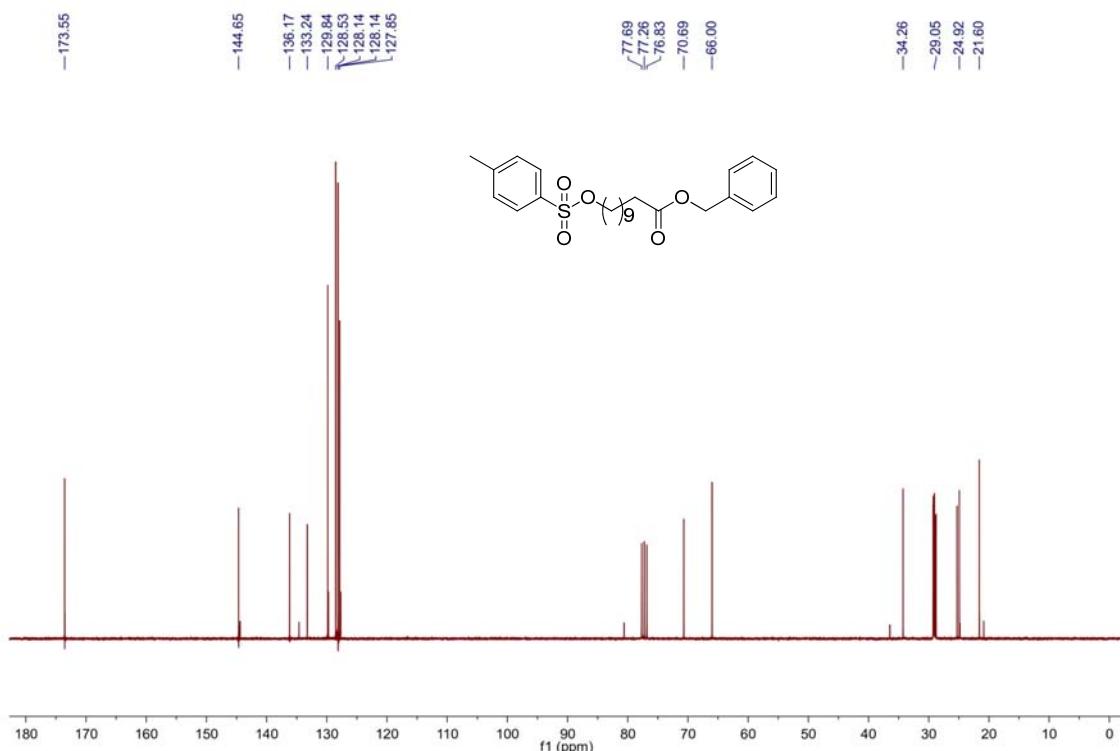


Figure S7. ¹³C NMR spectrum of benzyl 11-(tosyloxy)undecanoate (**10**).

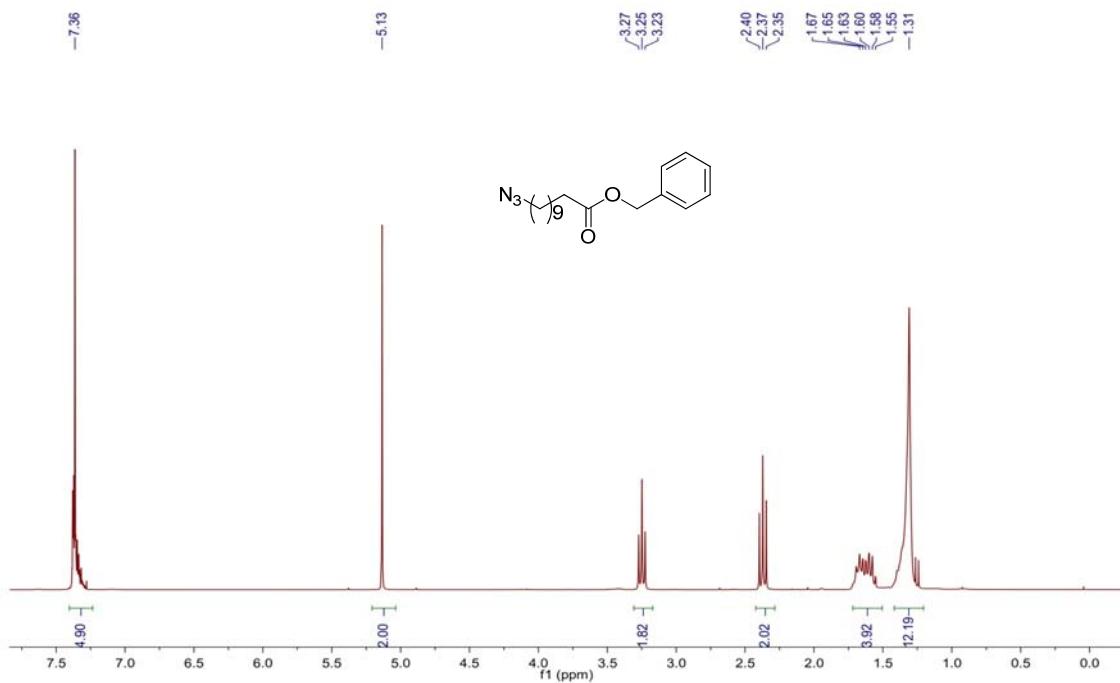


Figure S8. ¹H NMR spectrum of benzyl 11-azidoundecanoate (**11**).

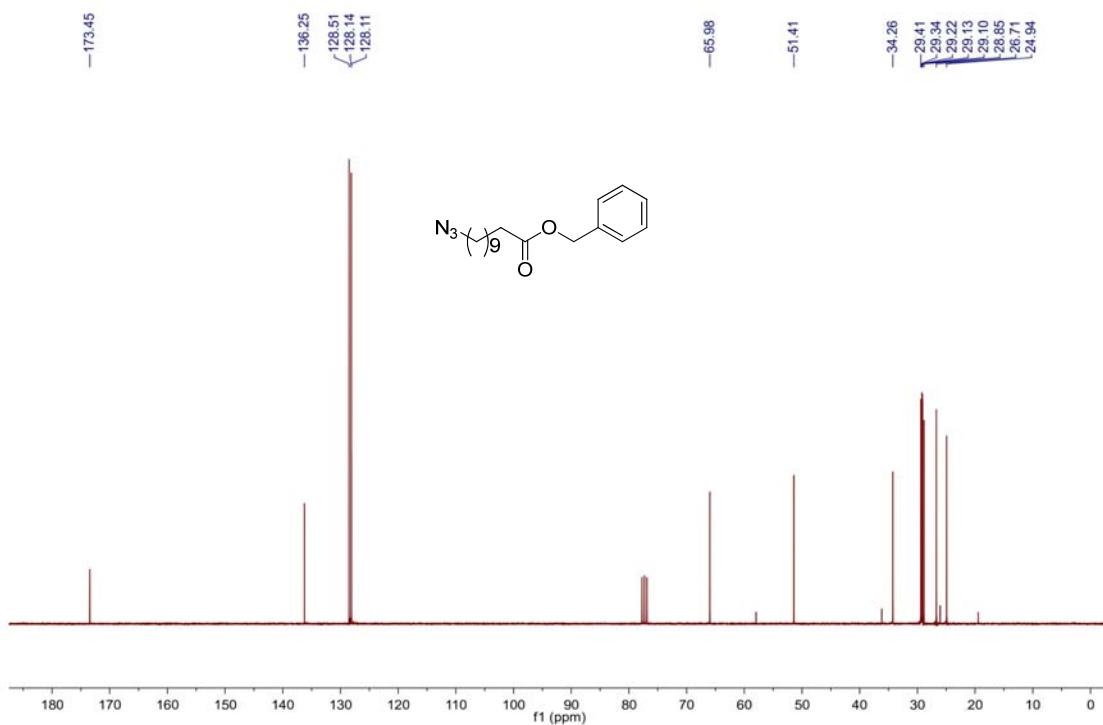


Figure S9. ^{13}C NMR spectrum of Benzyl 11-azidoundecanoate (**11**).

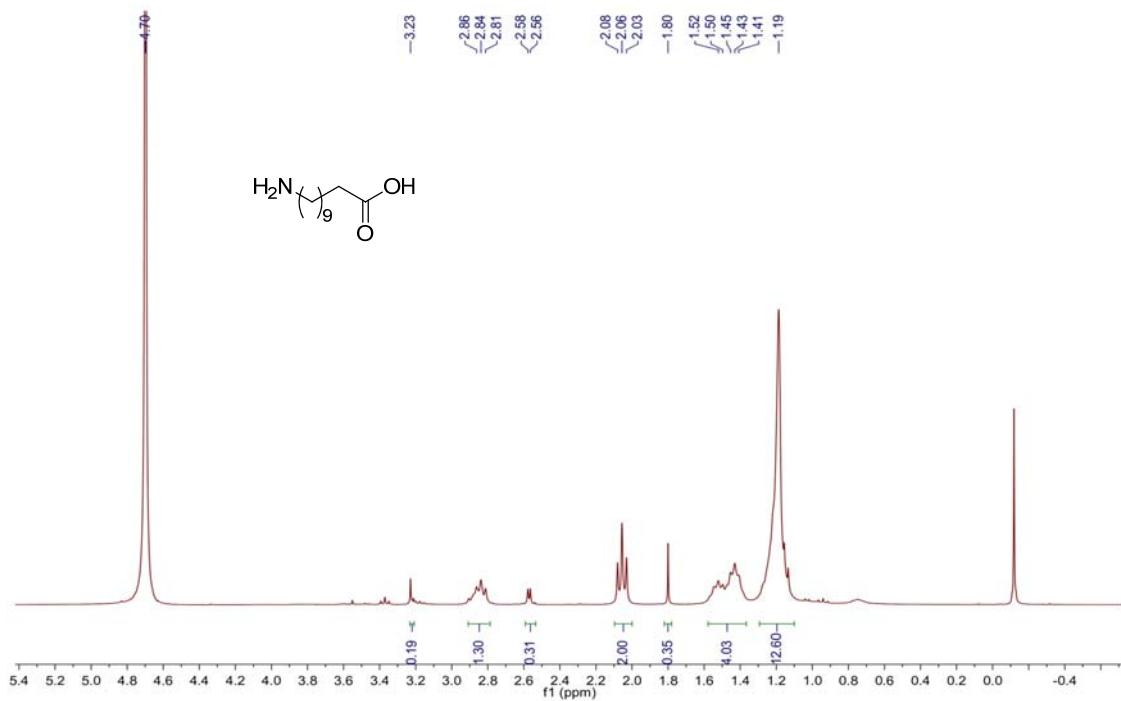


Figure S10. ^1H NMR spectrum of 11-aminoundecanoic acid (**12**).