Supplementary Information

# Synthesis of glycoprotein inhibitory agents sinuxylamide A-E

K Annapurna[a], K Srinivasa Rao[a] & A Venkat Narsaiah[a,b,*]

[a]Organic Synthesis Laboratory, Fluoro-Agrochemicals Department,
CSIR-Indian Institute of Chemical Technology, Hyderabad 500 007, Telangana, India

[b]Academy of Scientific and Innovative Research (AcSIR), CSIR-HRDC Campus, Postal Staff College Area
Sector 19, Kamla Nehru Nagar, Ghaziabad 201 002, Uttar Pradesh, India

*E-mail: vnakkirala@iict.res.in; vnakkirala2001@yahoo.com

*Received 27 June 2022; accepted (revised) 3 August 2022*

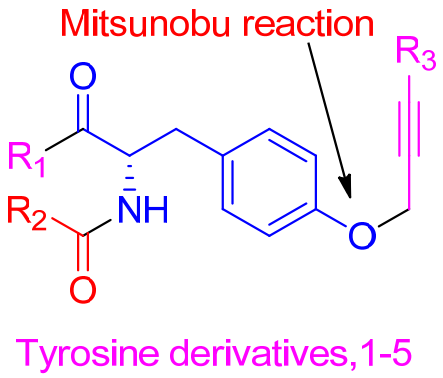


Fig. S1 — Structure of Sinuxylamide

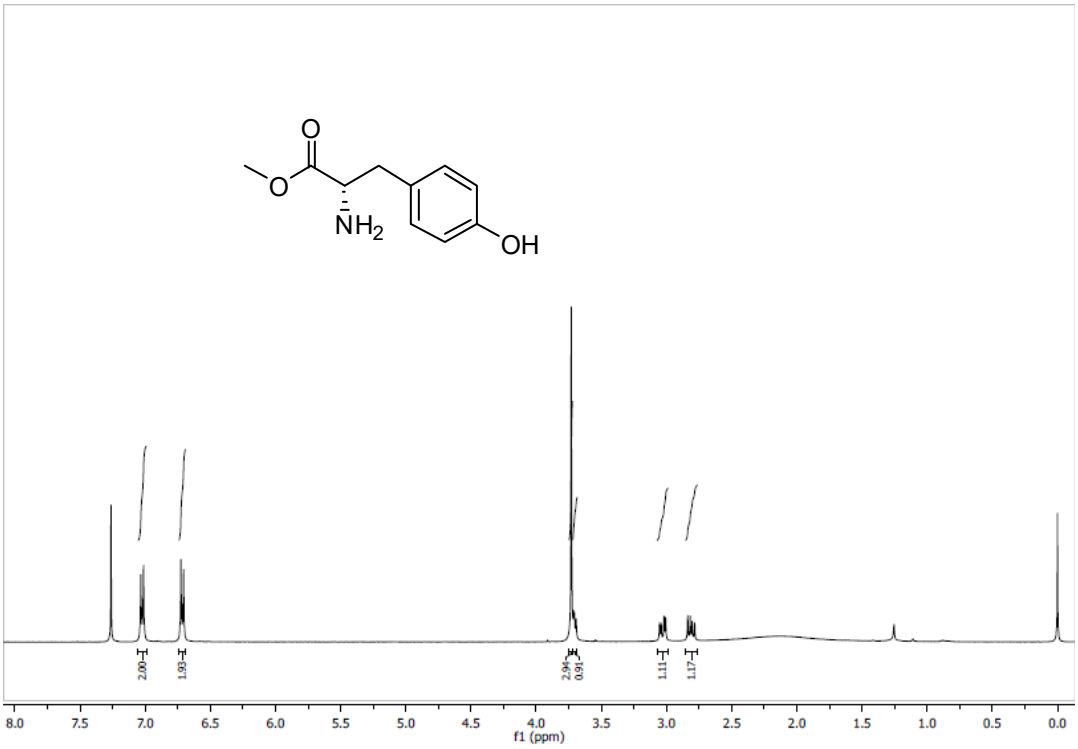


Fig. S2 — $^{1}$H NMR spectrum of compound 2 in $CDCl_3$ (400 MHz)

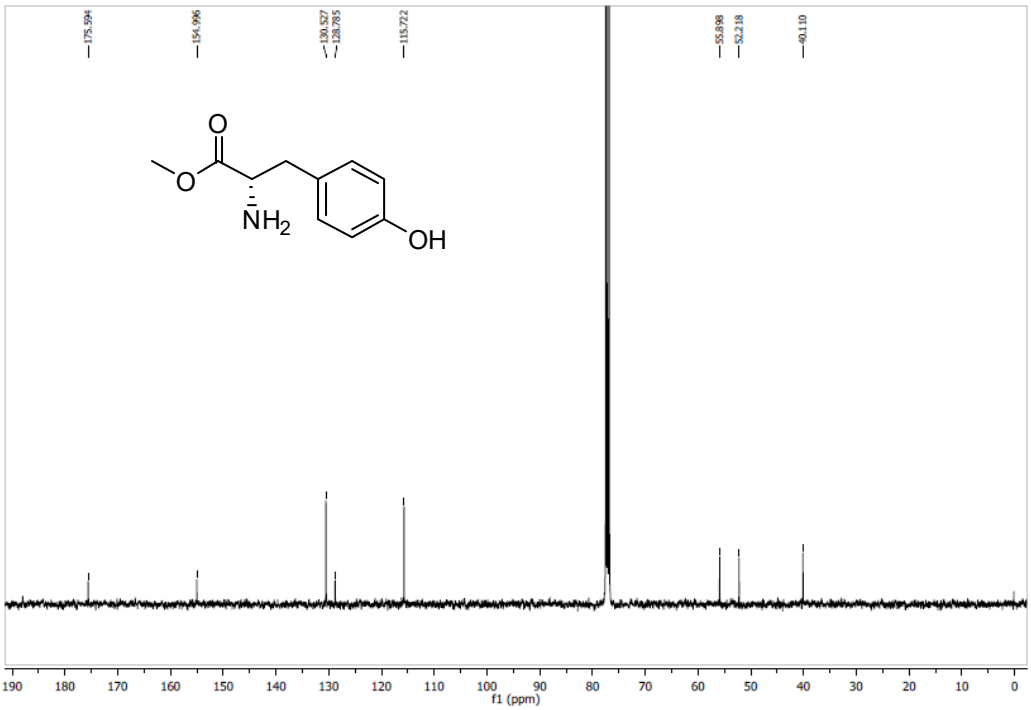


Fig. S3 — $^{13}C$ NMR spectrum of compound 2 in $CDCl_3$ (101 MHz)

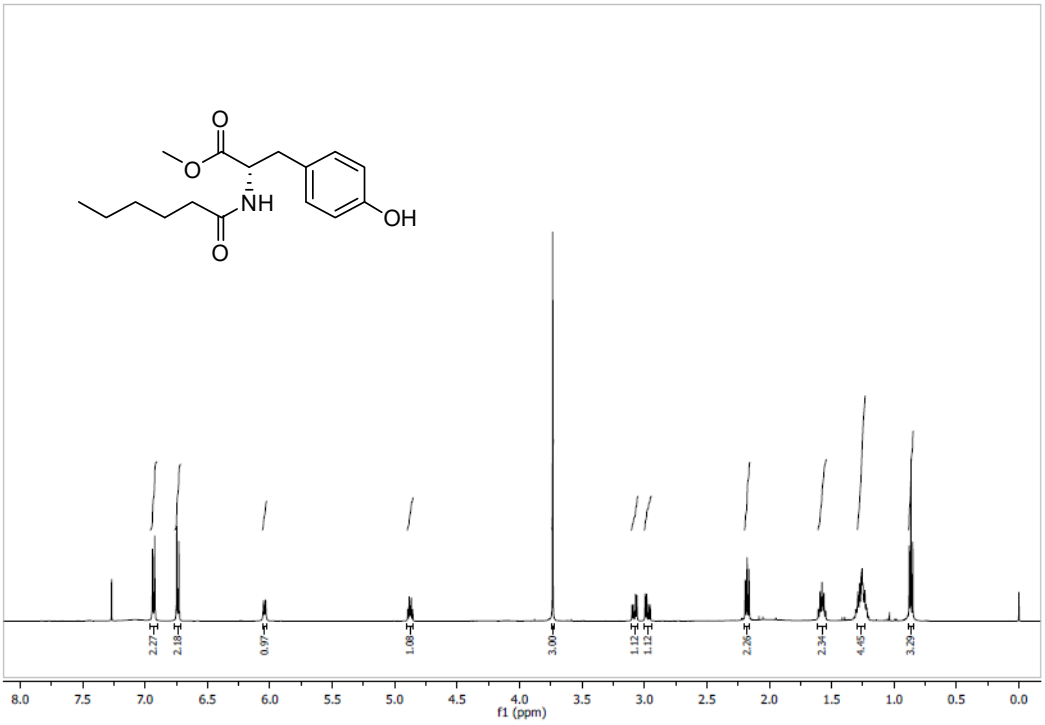


Fig. S4 — $^{1}H$ NMR spectrum of compound 3 in $CDCl_3$ (500 MHz)

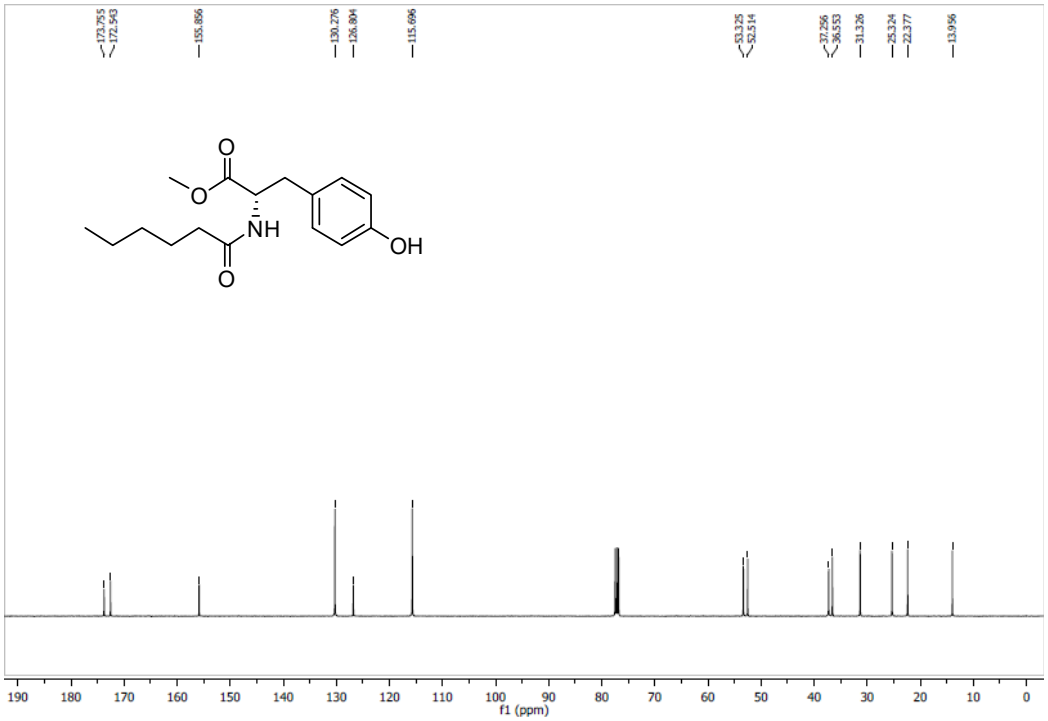


Fig. S5 — $^{13}C$ NMR spectrum of compound 3 in $CDCl_3$ (101 MHz)

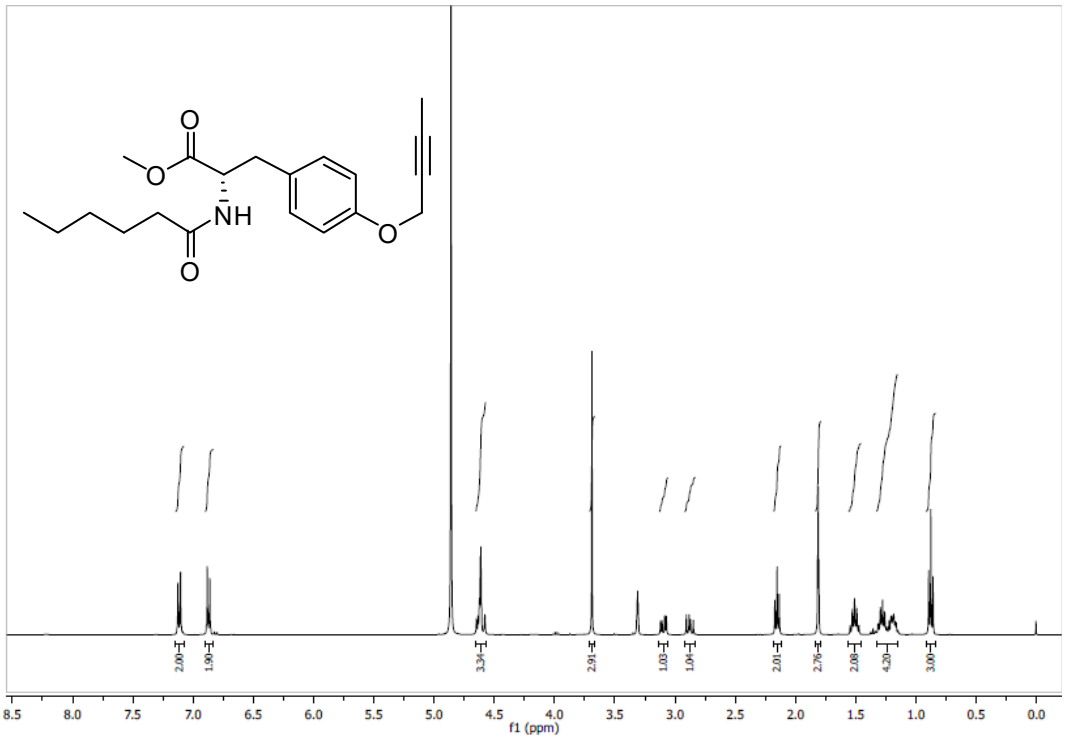


Fig. S6 — $^{1}H$ NMR spectrum of compound A in $CD_3OD$ (400 MHz)

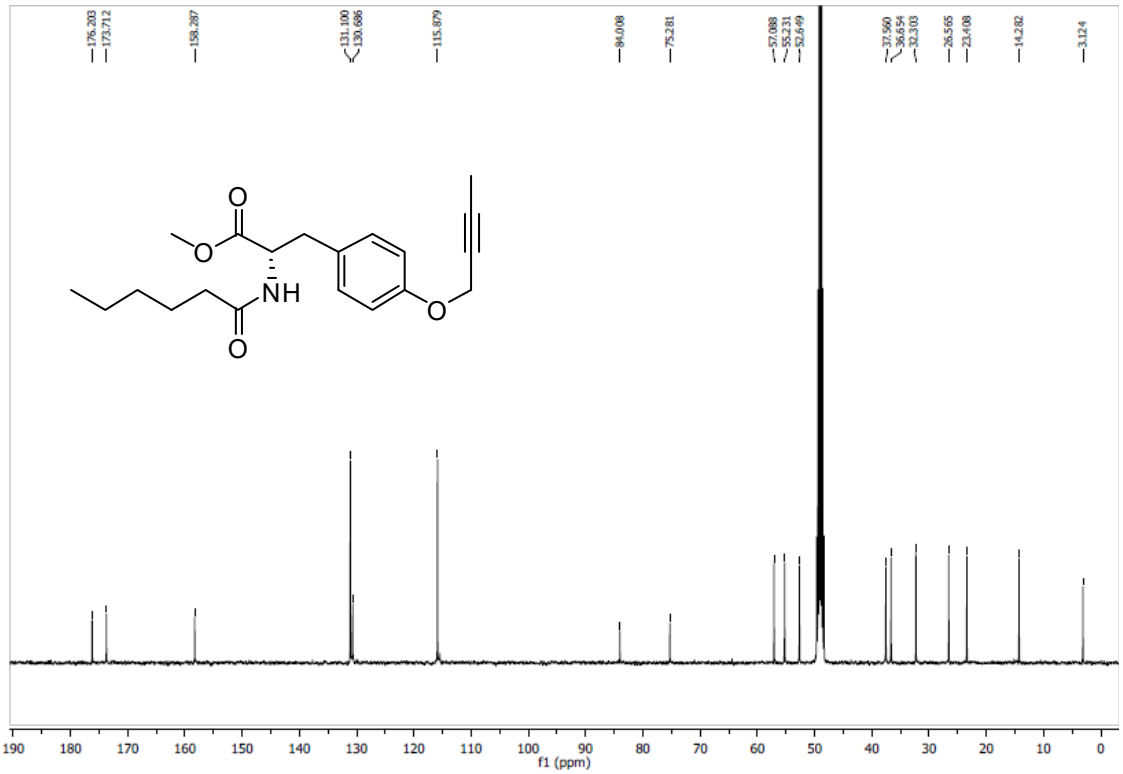


Fig. S7 — $^{13}C$ NMR spectrum of compound A in $CD_3OD$ (101 MHz)

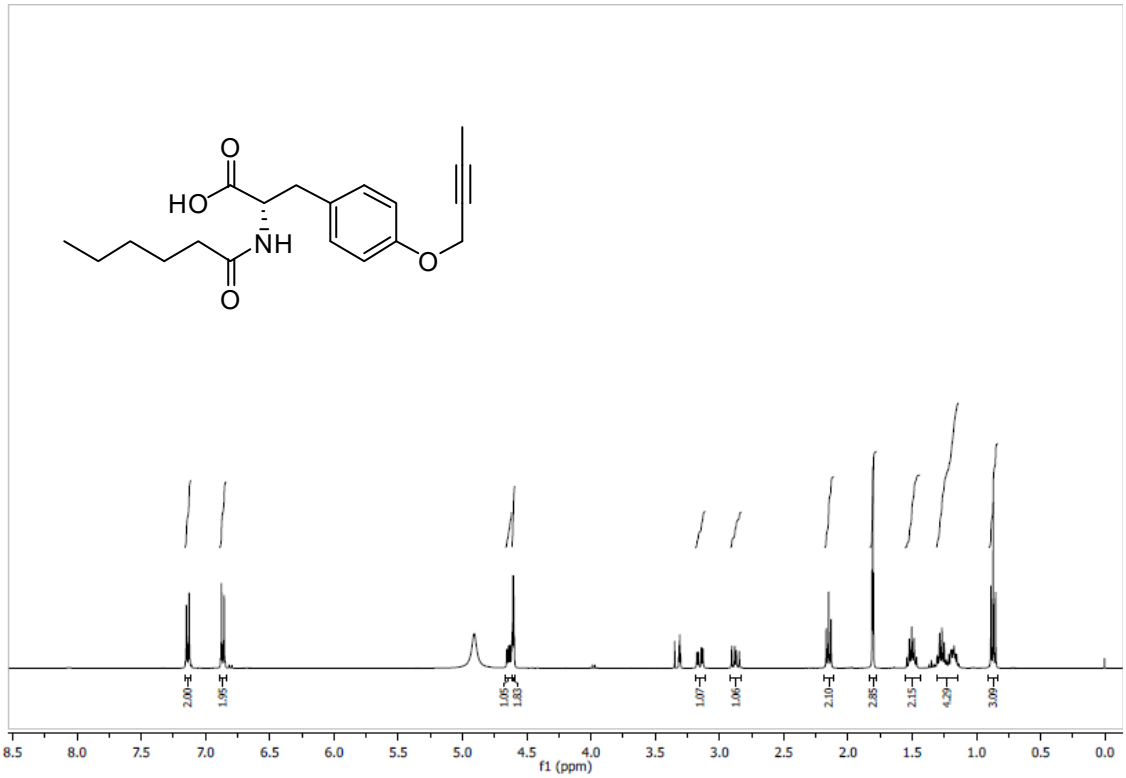


Fig. S8 — $^{1}H$ NMR spectrum of compound B in $CD_3OD$ (400 MHz)

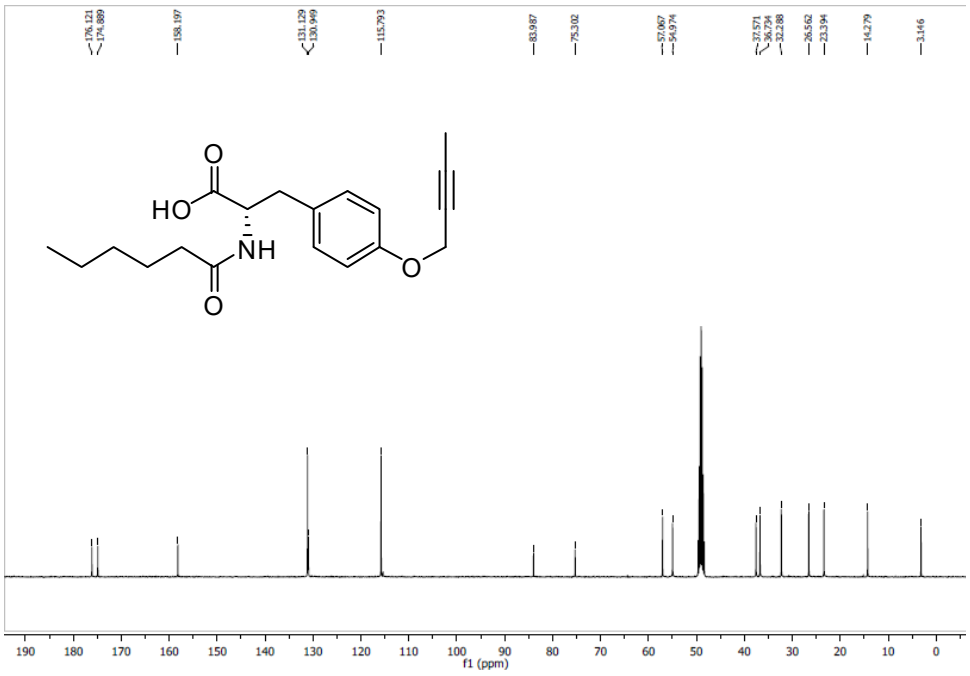


Fig. S9 — $^{13}C$ NMR spectrum of compound B in $CD_3OD$ (101 MHz)

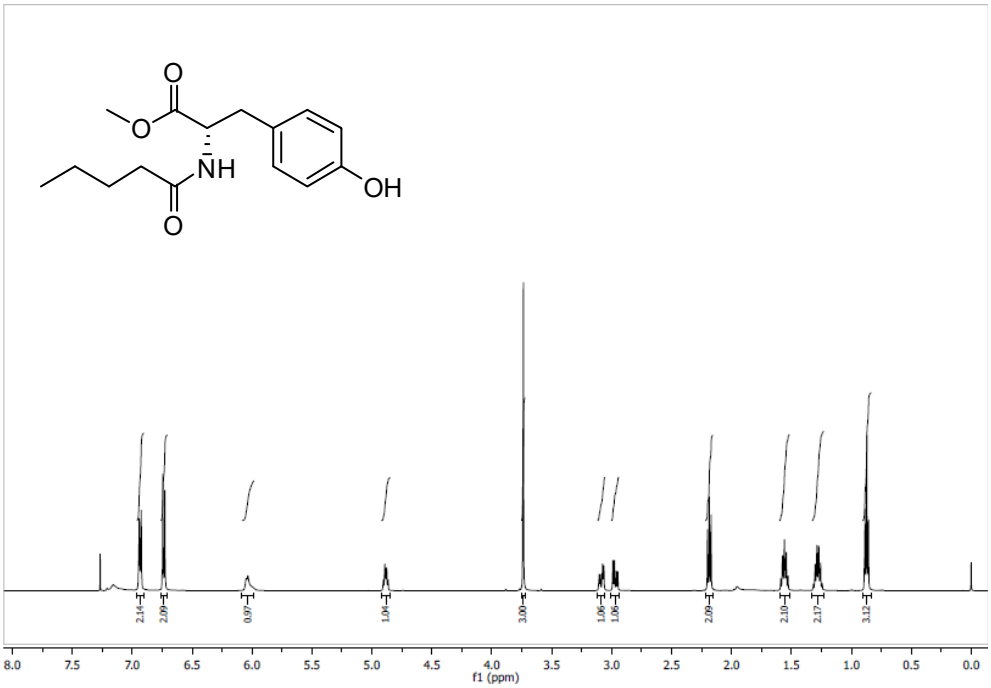


Fig. S10 —$^{1}H$ NMR spectrum of compound 4 in $CDCl_3$ (500 MHz)

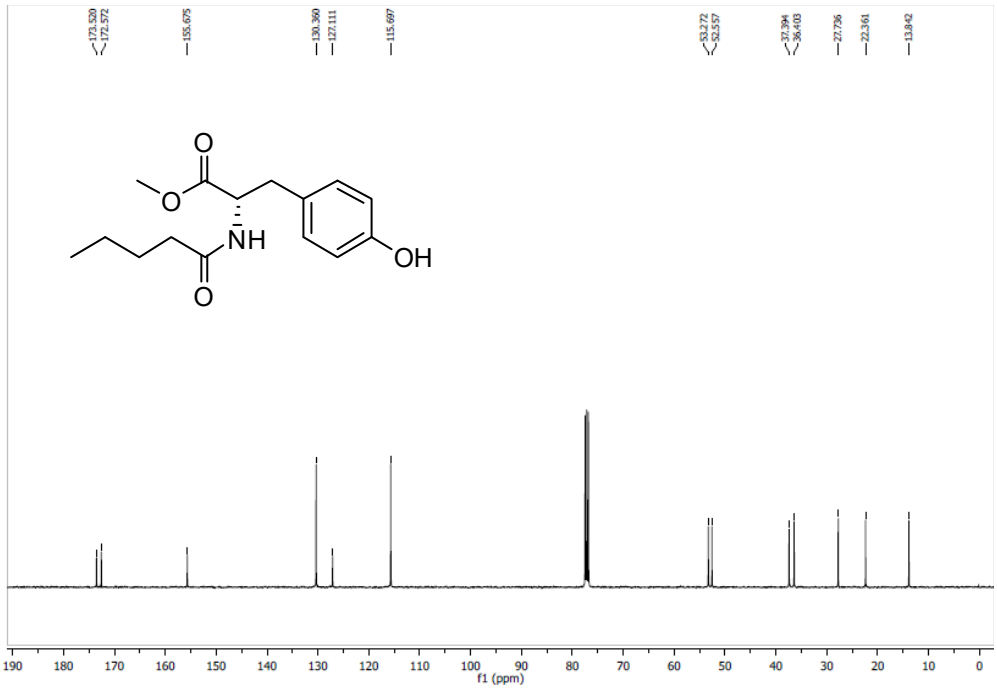


Fig. S11 —$^{13}$C NMR spectrum of compound 4 in $CDCl_3$ (101 MHz)

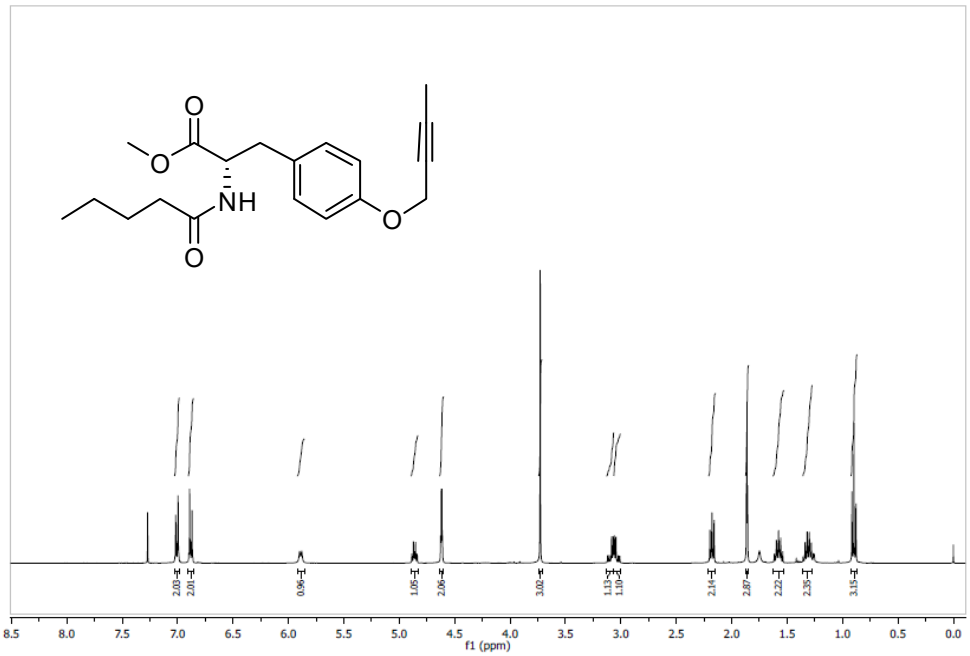


Fig. S12 —$^{1}$H NMR spectrum of compound 5 in $CDCl_3$ (400 MHz)

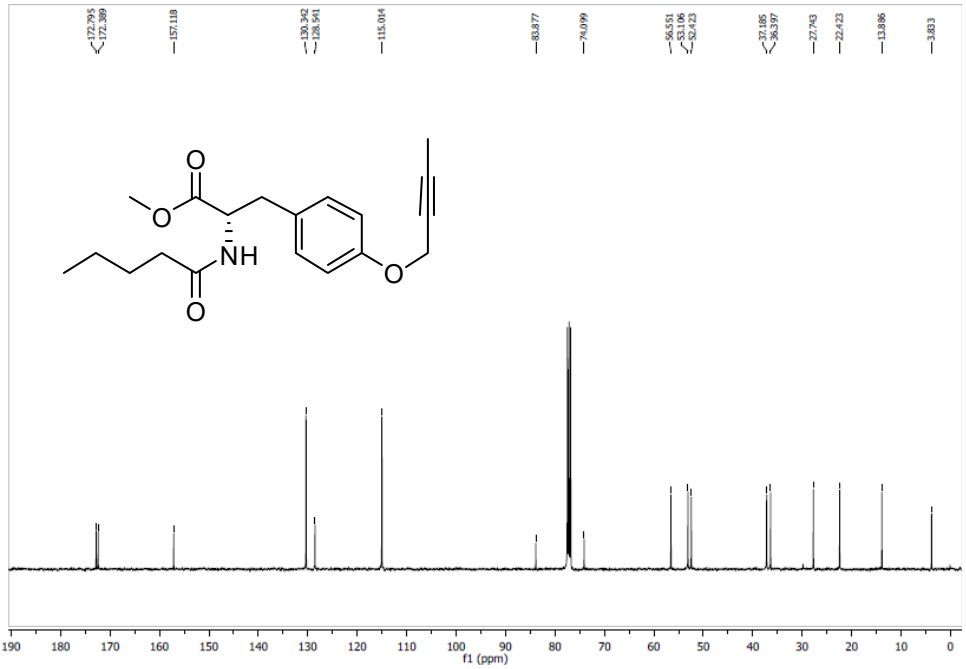


Fig. S13— $^{13}C$ NMR spectrum of compound 5 in $CDCl_3$ (101 MHz)

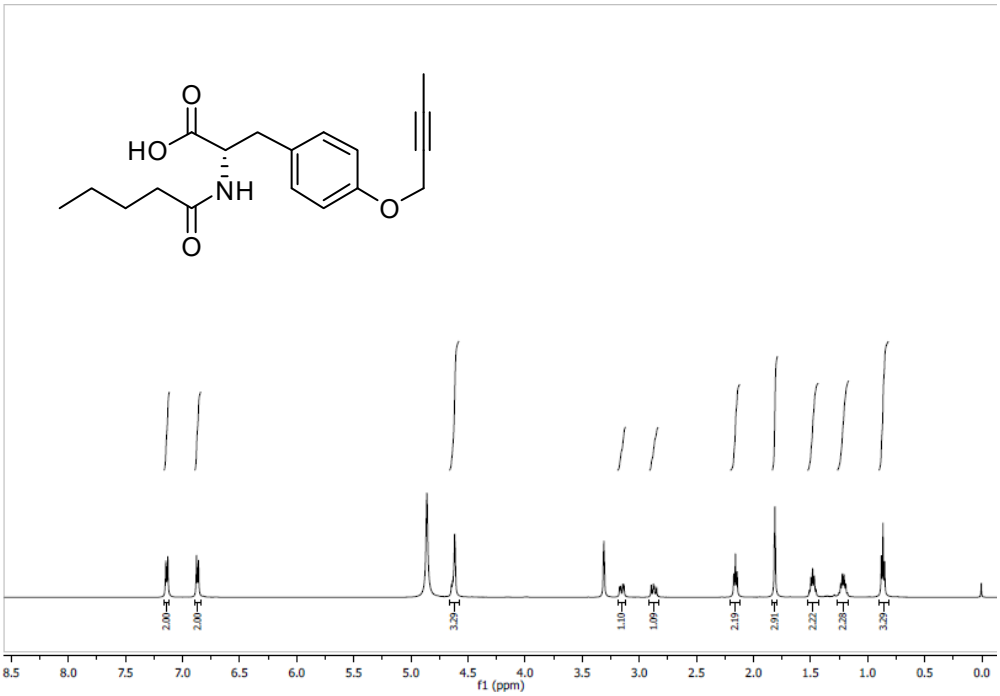


Fig. S14 — $^{1}H$ NMR spectrum of compound C in $CD_3OD$ (500 MHz)

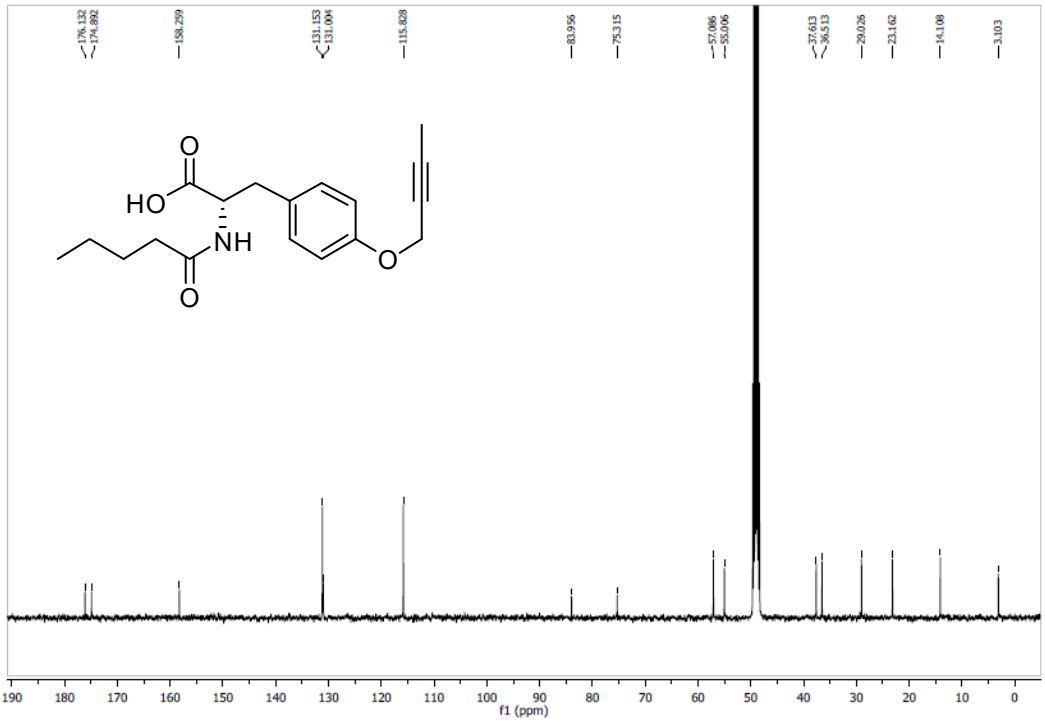


Fig. S15 — $^{13}C$ NMR spectrum of compound C in $CD_3OD$ (101 MHz)

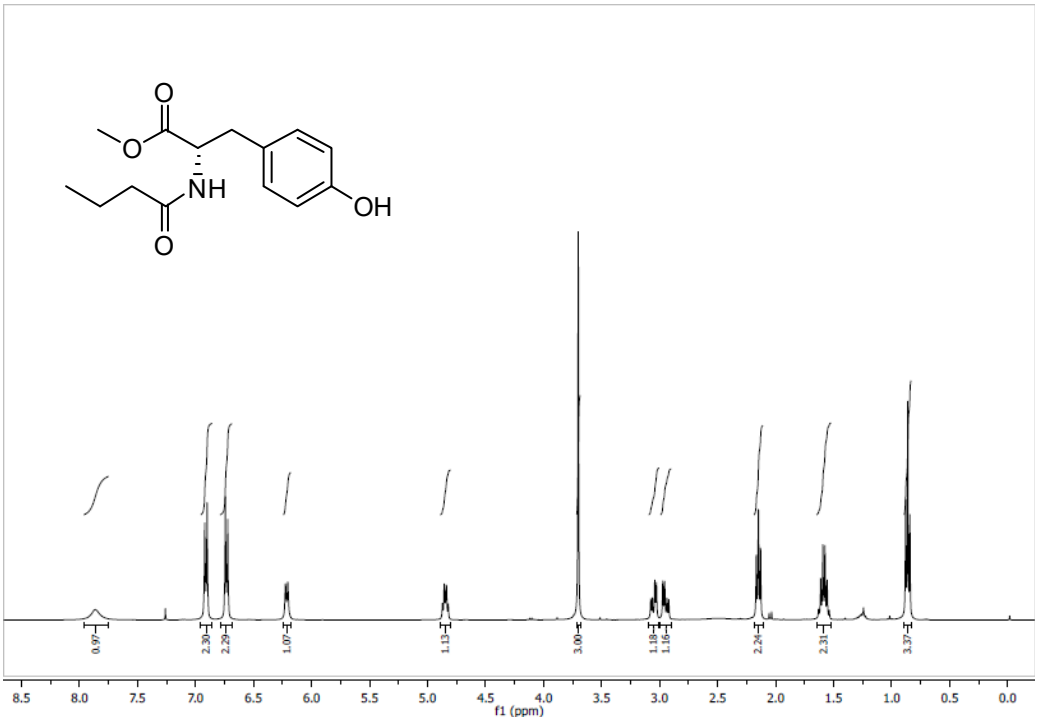


Fig. S16 — $^{1}H$ NMR spectrum of compound 6 in $CDCl_3$ (400 MHz)

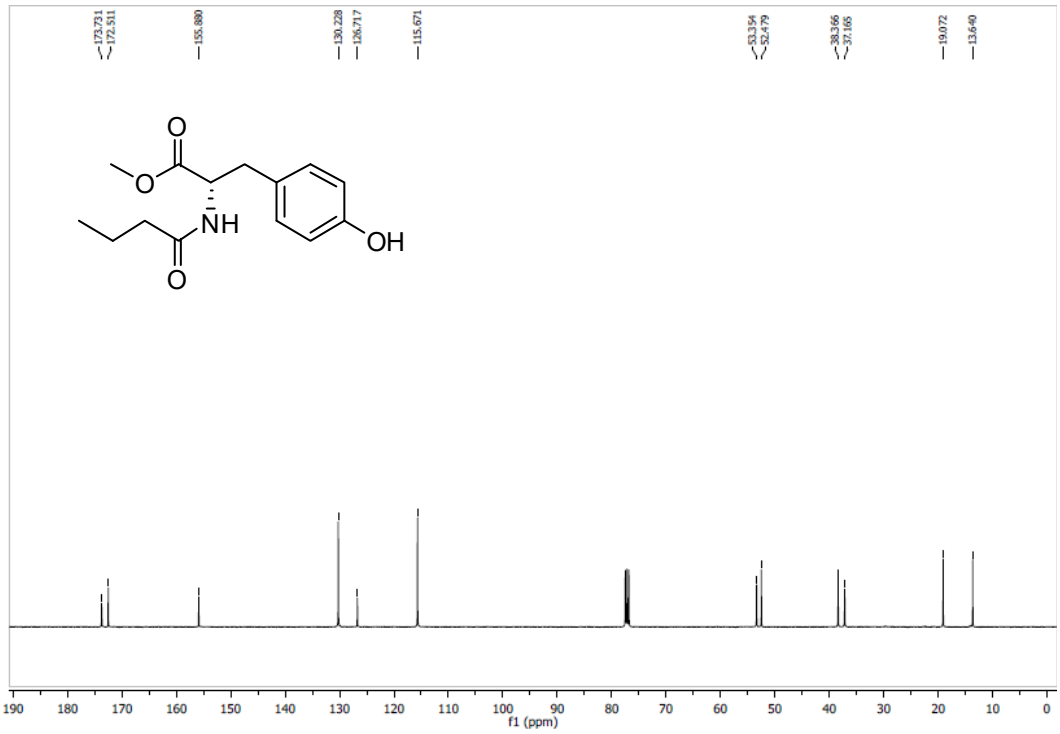


Fig. S17 — $^{13}C$ NMR spectrum of compound 6 in $CDCl_3$ (100 MHz)

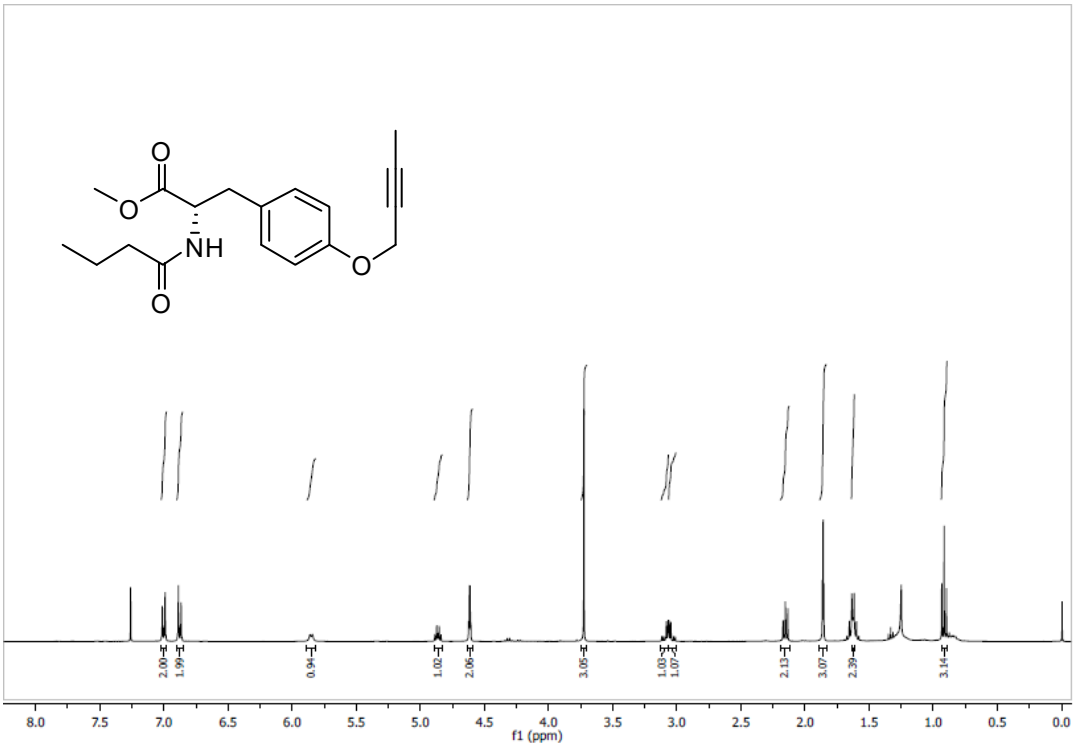


Fig. S18 — $^{1}H$ NMR spectrum of compound 7 in $CDCl_3$ (400 MHz)

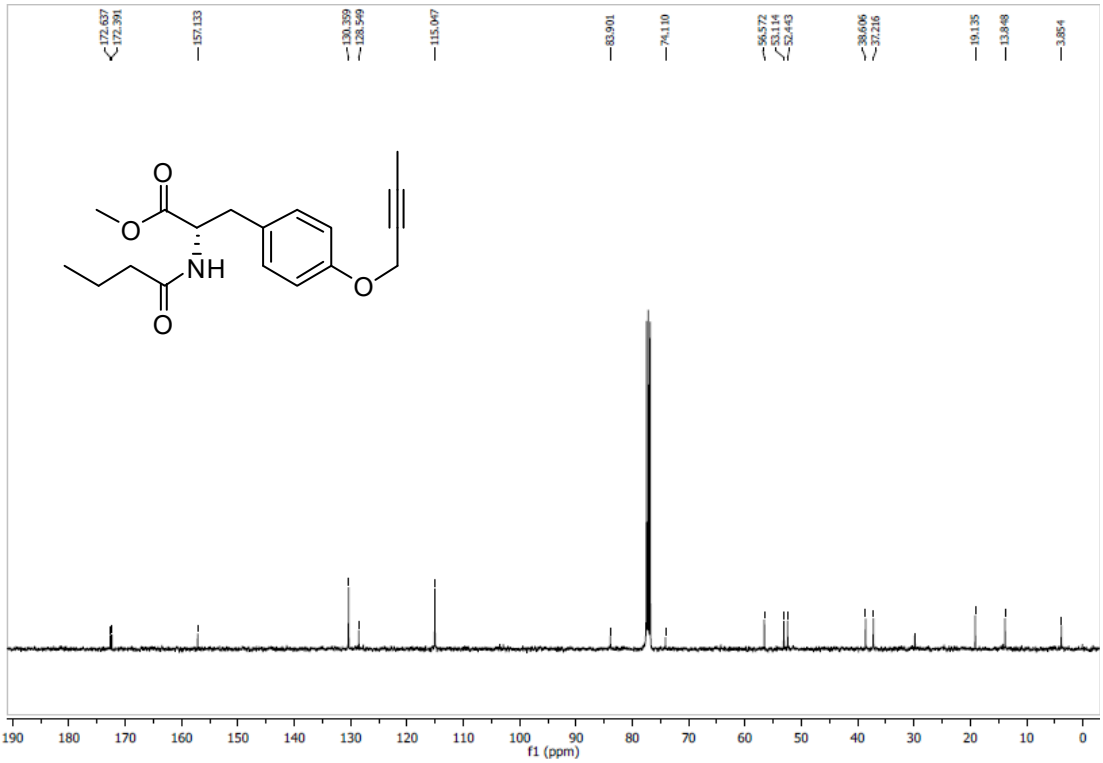


Fig. S19 —$^{13}$C NMR spectrum of compound 7 in $CDCl_3$ (100 MHz)

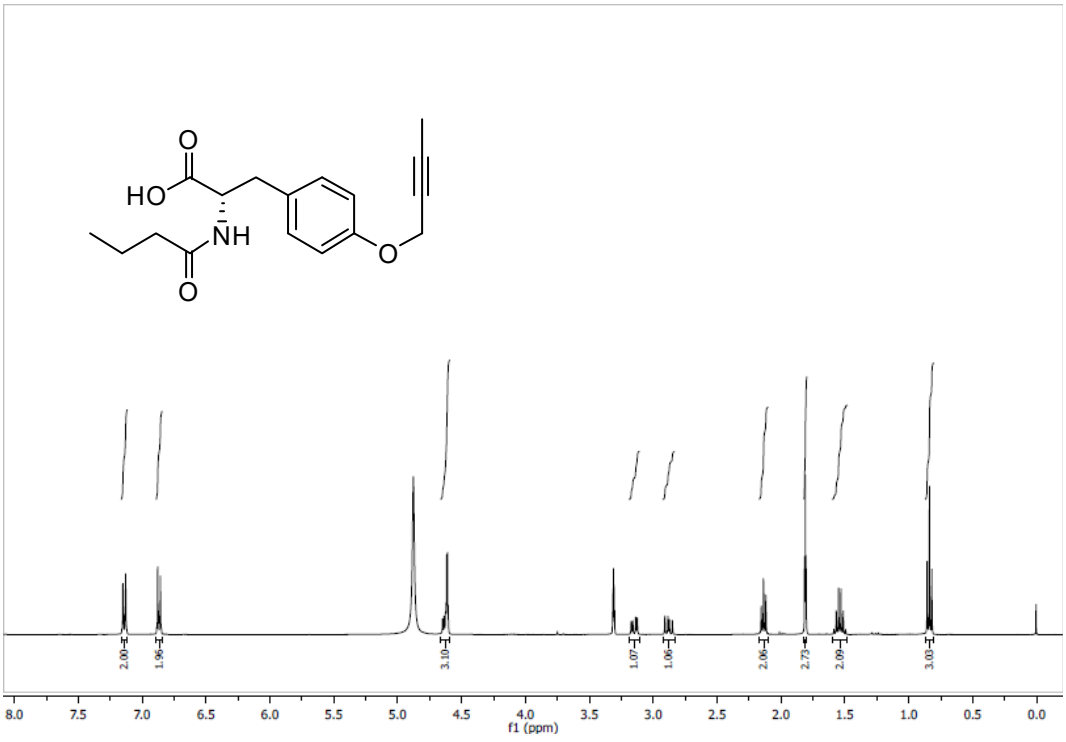


Fig. S20 — $^{1}$H NMR spectrum of compound D in $CD_3OD$ (400 MHz)

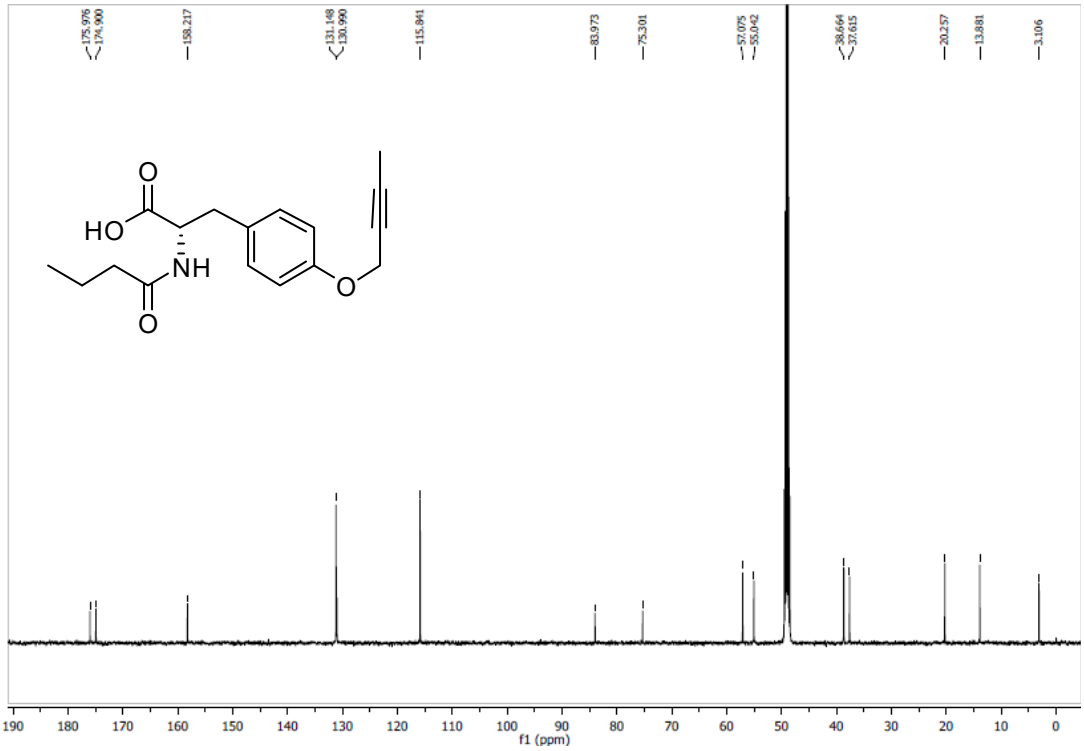


Fig. S21 — $^{13}C$ NMR spectrum of compound D in $CD_3OD$ (126 MHz)

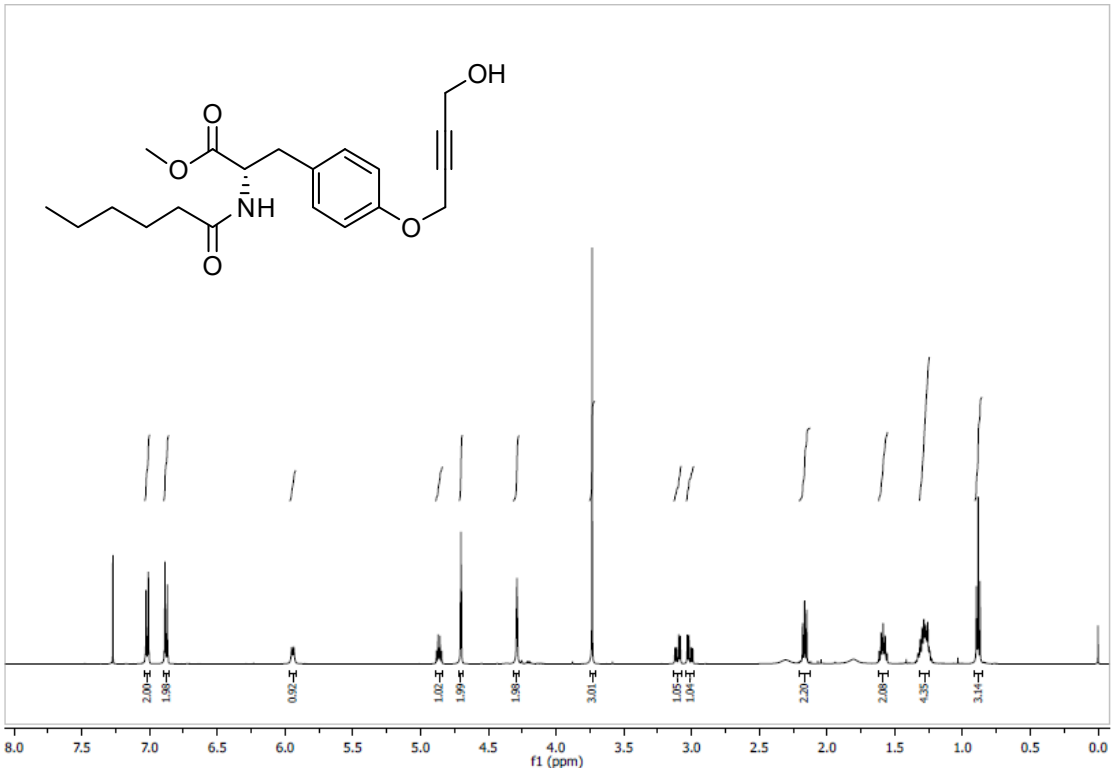


Fig. S22 — $^{1}H$ NMR spectrum of compound 8 in $CDCl_3$ (500 MHz)

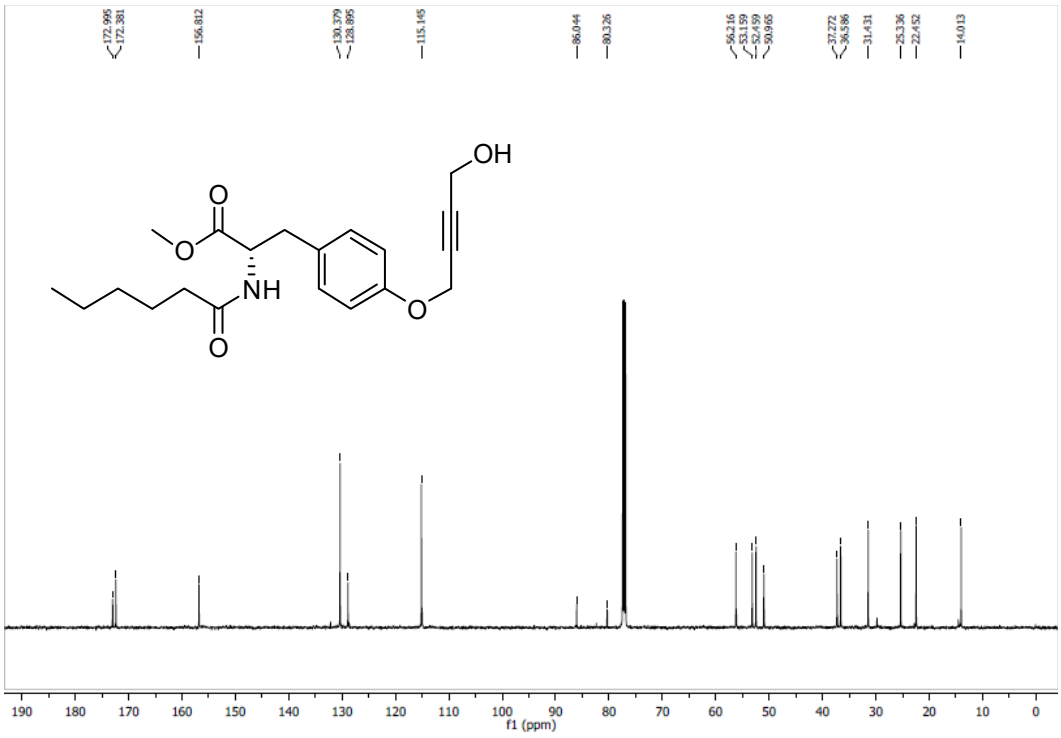


Fig. S23 — $^{13}C$ NMR spectrum of compound 8 in $CDCl_3$ (126 MHz)

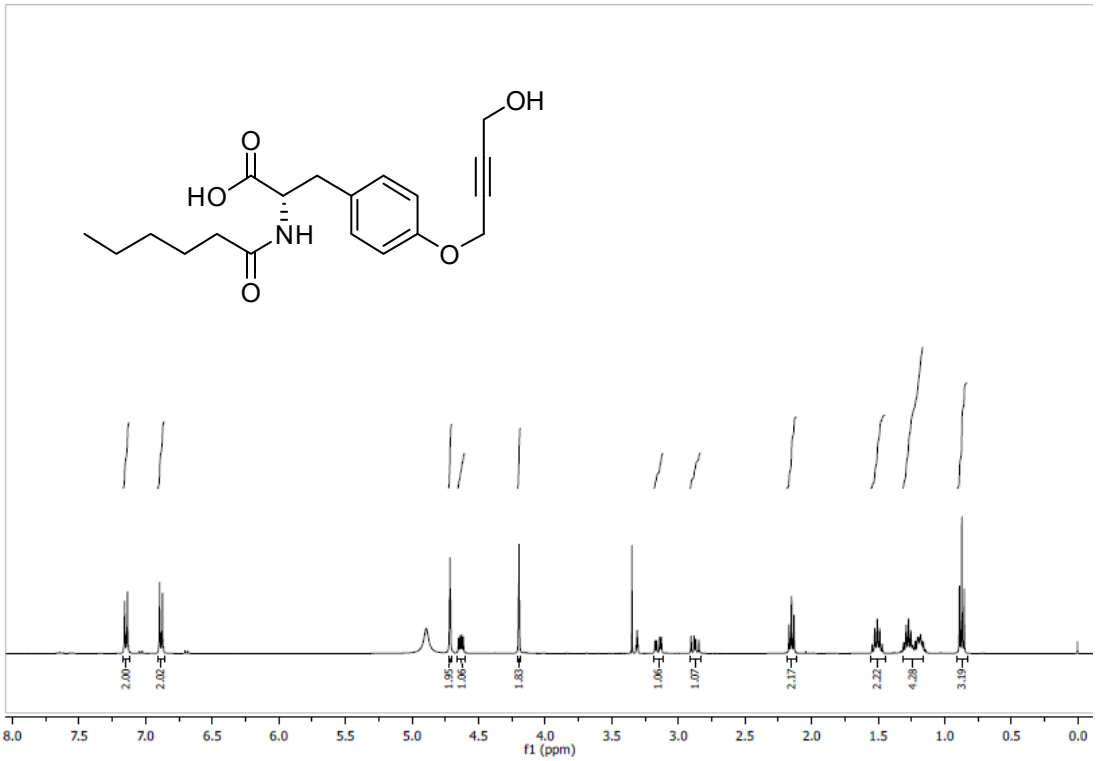


Fig. S24 — $^{1}H$ NMR spectrum of compound E in $CD_3OD$ (400 MHz)

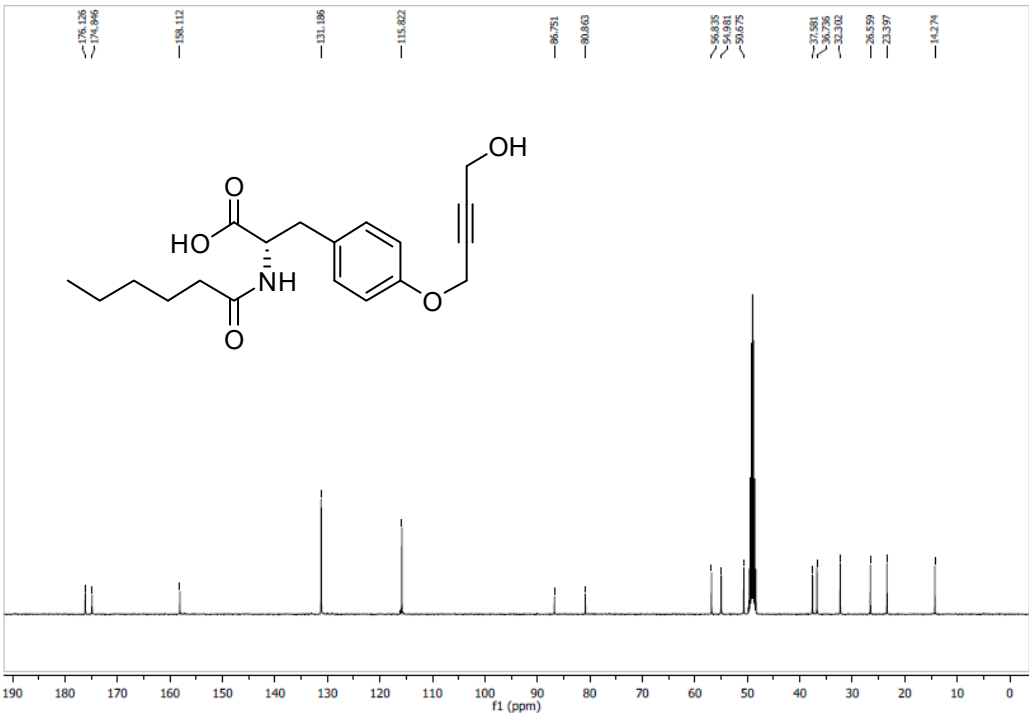


Fig. S25 — $^{13}C$ NMR spectrum of compound E in $CD_3OD$ (101 MHz)