

Electronic Supplementary Information

Concise synthesis of tubuphenylalanine and *epi*- tubuphenylalanine via diastereoselective Mukaiyama aldol reaction of silyl ketene acetal

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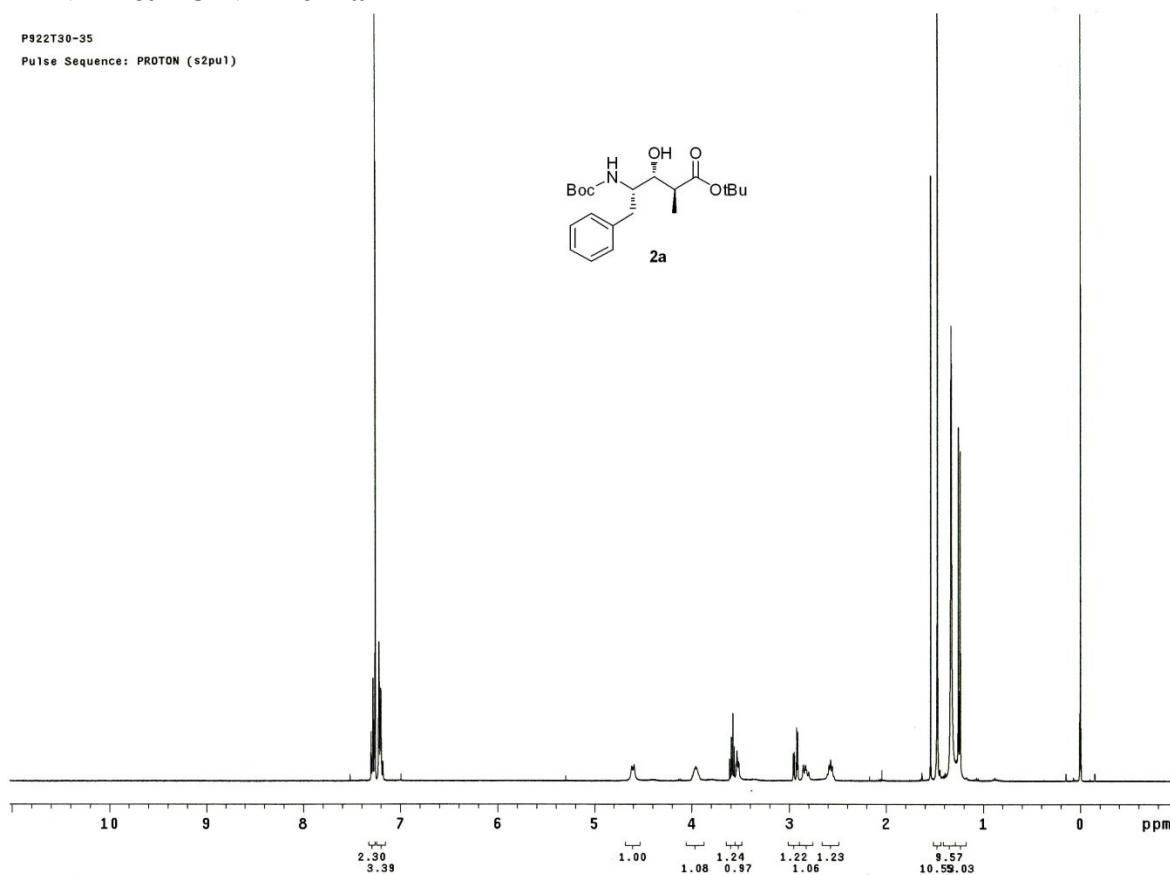
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¹H-NMR & ¹³C-NMR of **2a**

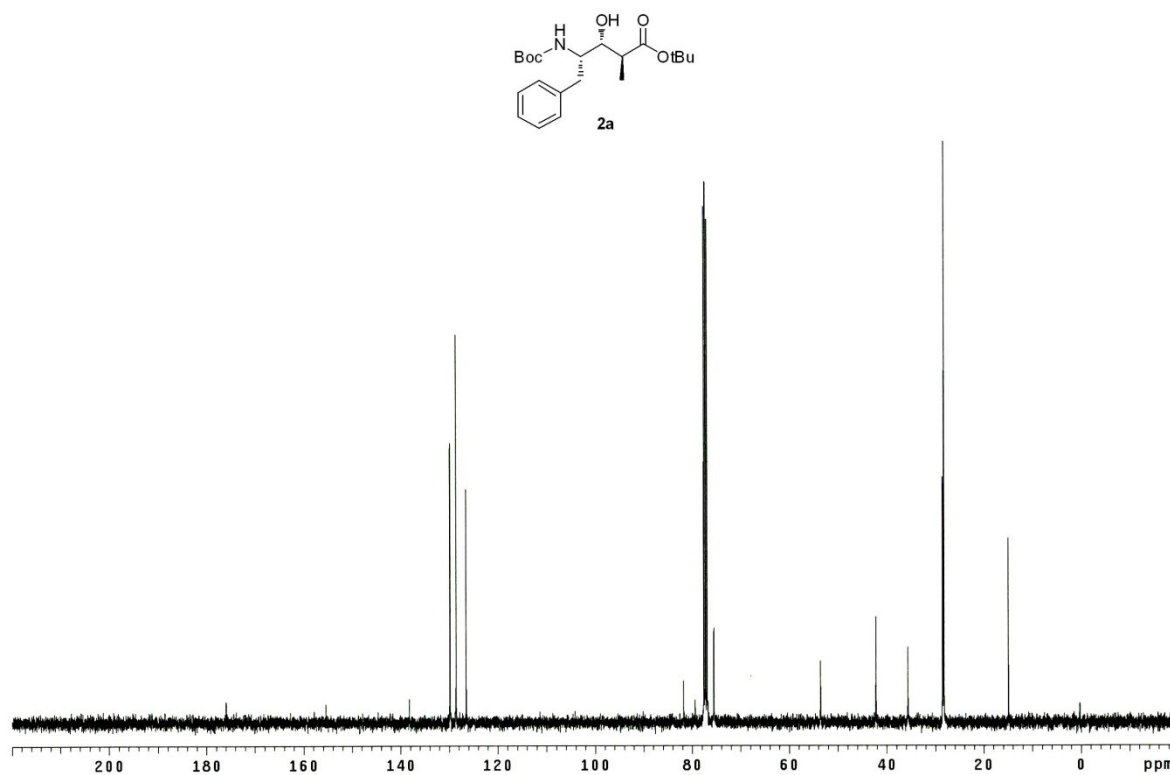
P922T30-35

Pulse Sequence: PROTON (s2pu1)



SMK215B

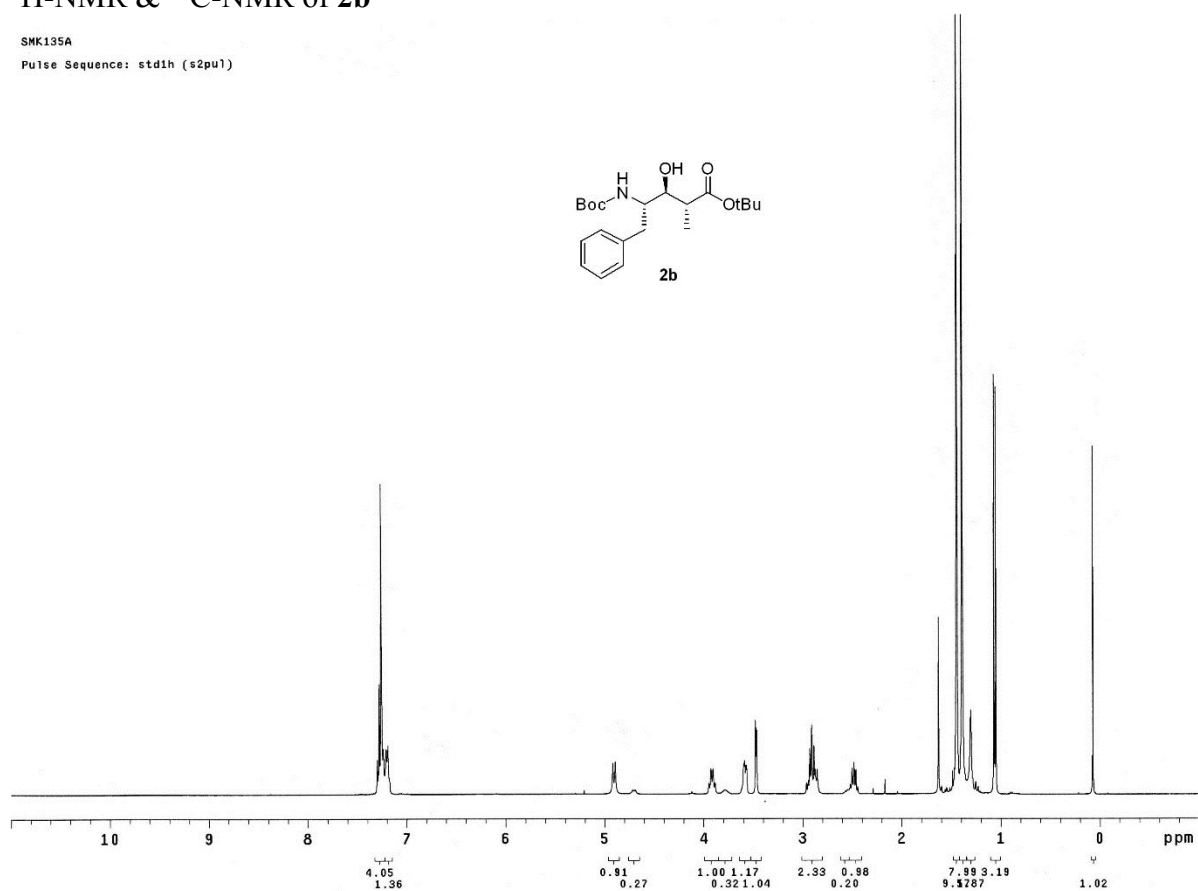
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¹H-NMR & ¹³C-NMR of **2b**

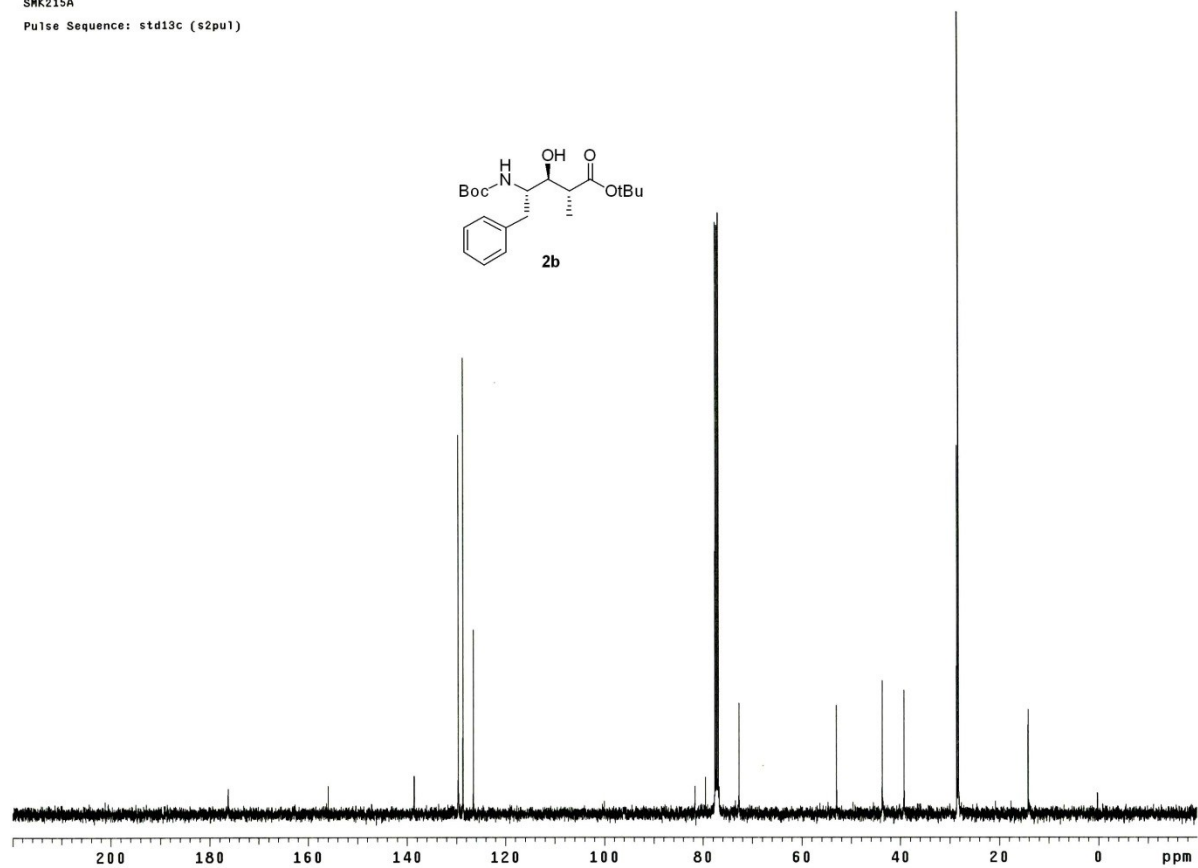
SMK135A

Pulse Sequence: std1h (s2pu1)



SMK215A

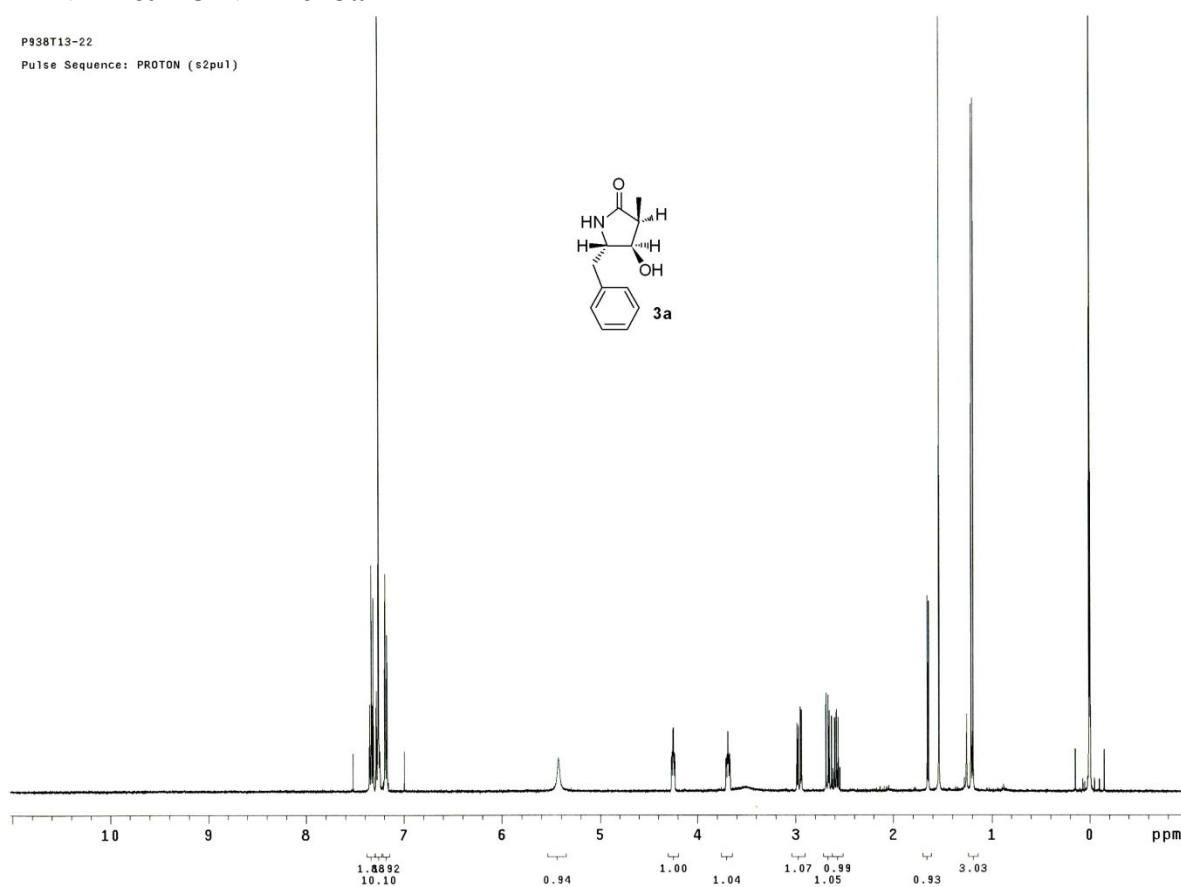
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¹H-NMR & ¹³C-NMR of **3a**

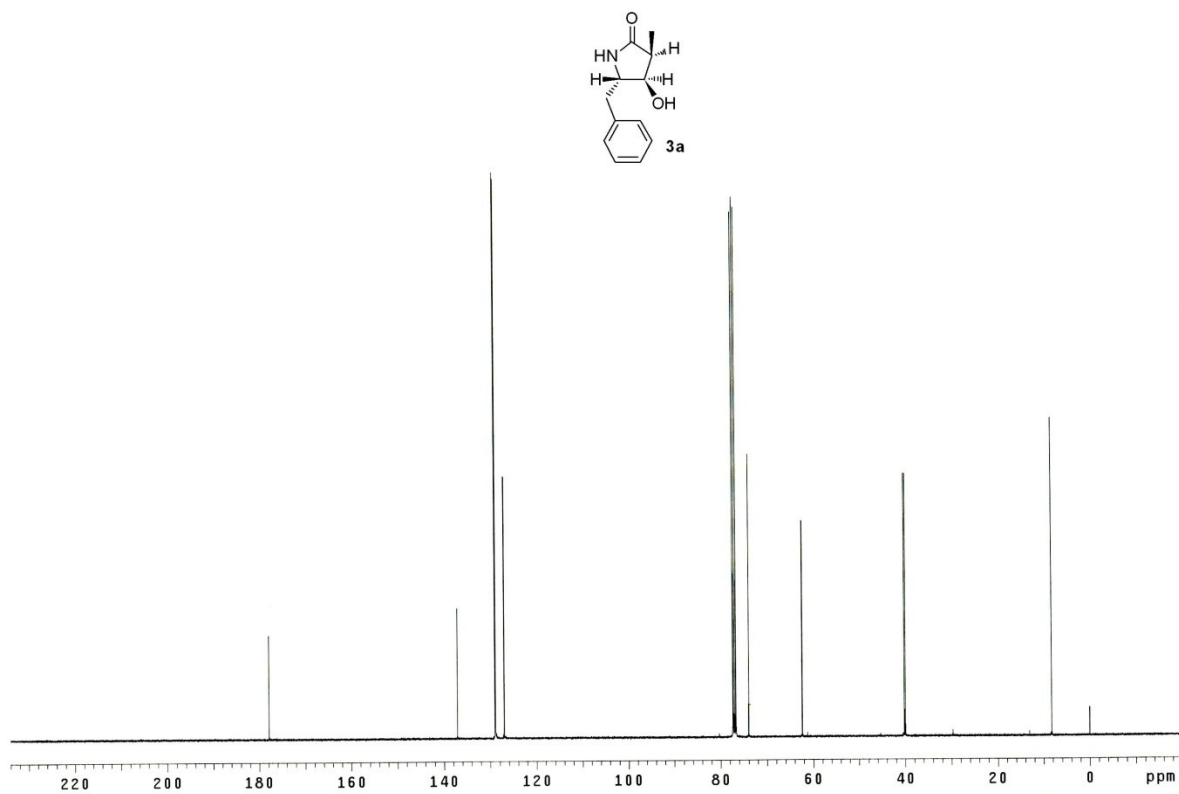
P938T13-22

Pulse Sequence: PROTON (s2pu1)



P938T13-22

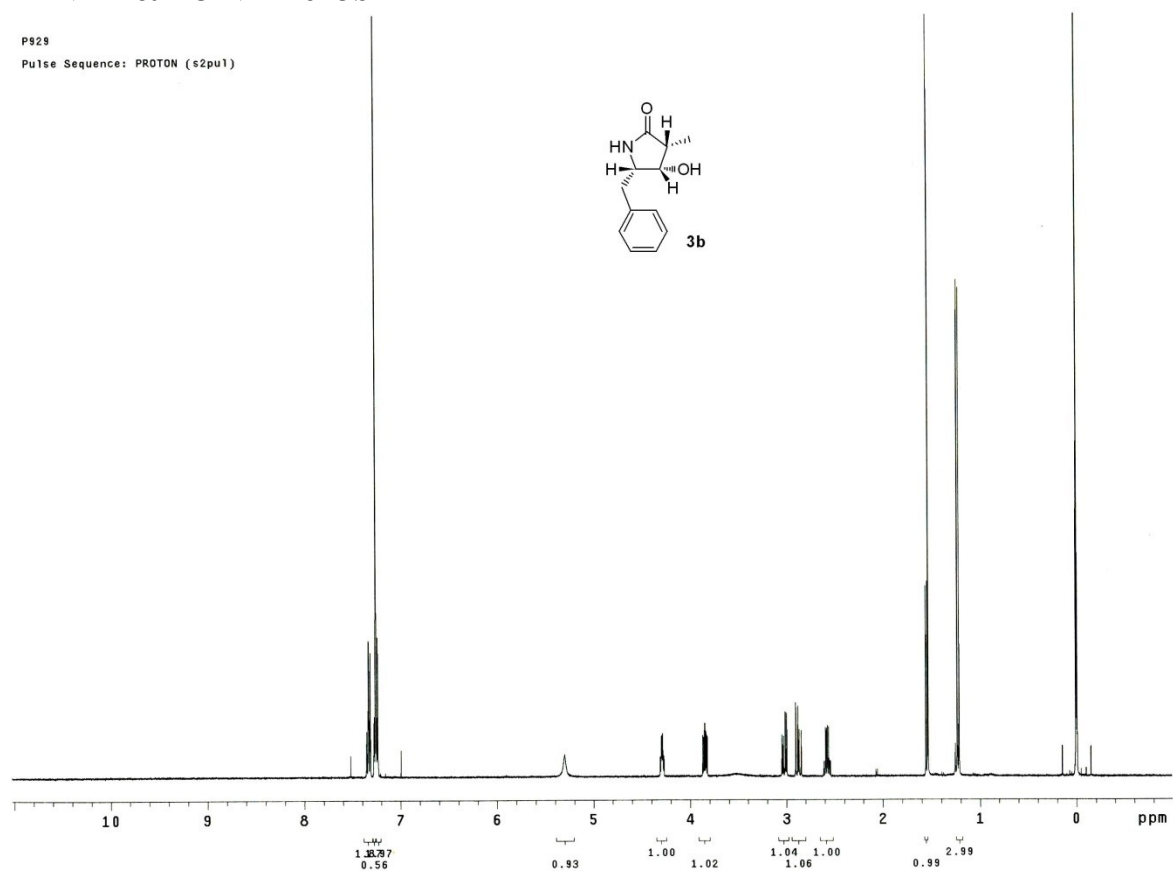
Pulse Sequence: CARBON (s2pu1)



¹H-NMR & ¹³C-NMR of **3b**

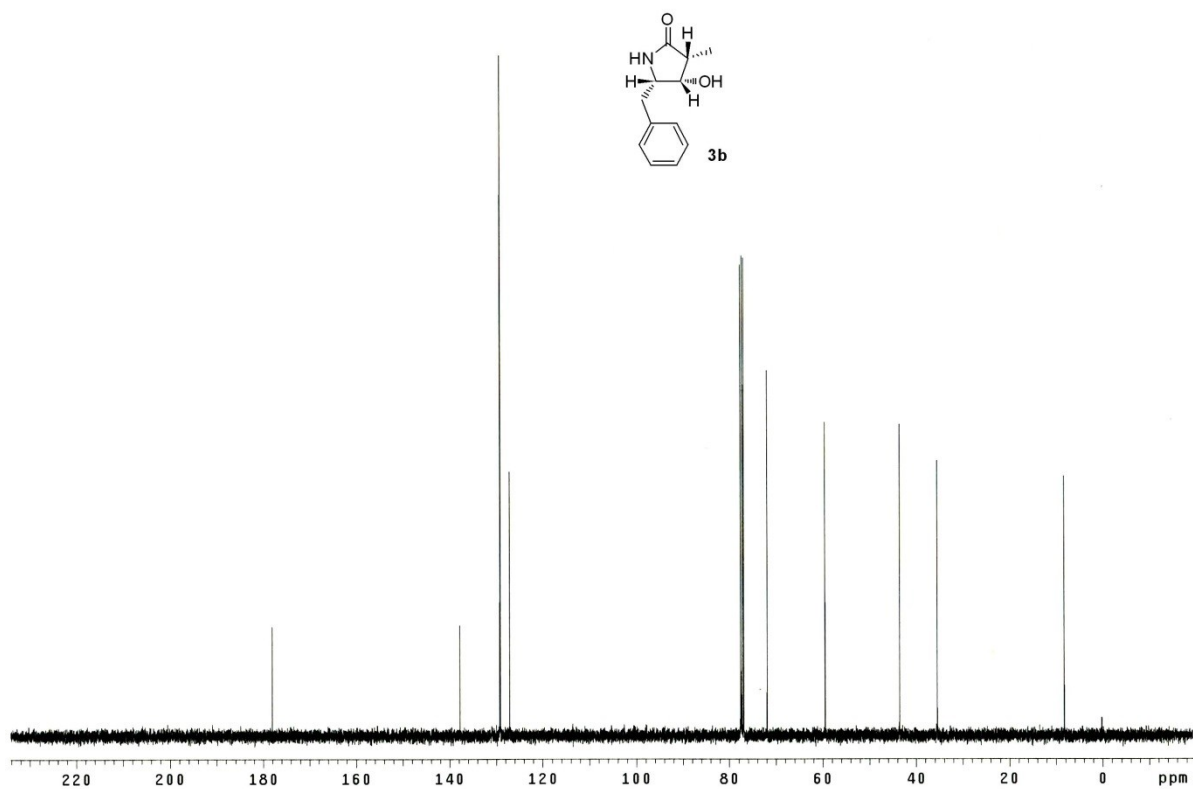
P929

Pulse Sequence: PROTON (s2pu1)



P929-150428

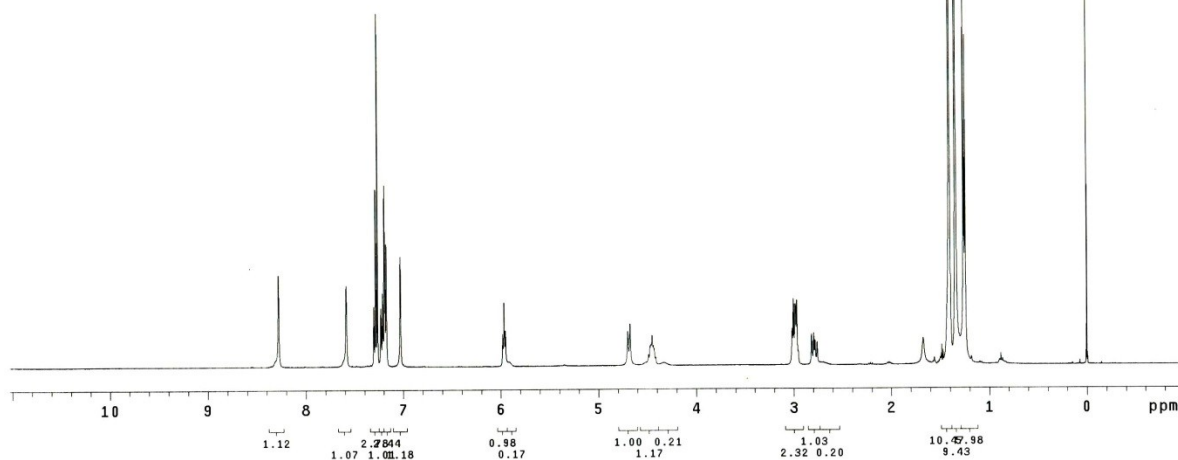
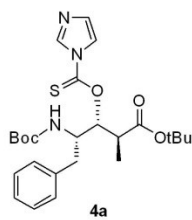
Pulse Sequence: CARBON (s2pu1)



¹H-NMR & ¹³C-NMR of **4a**

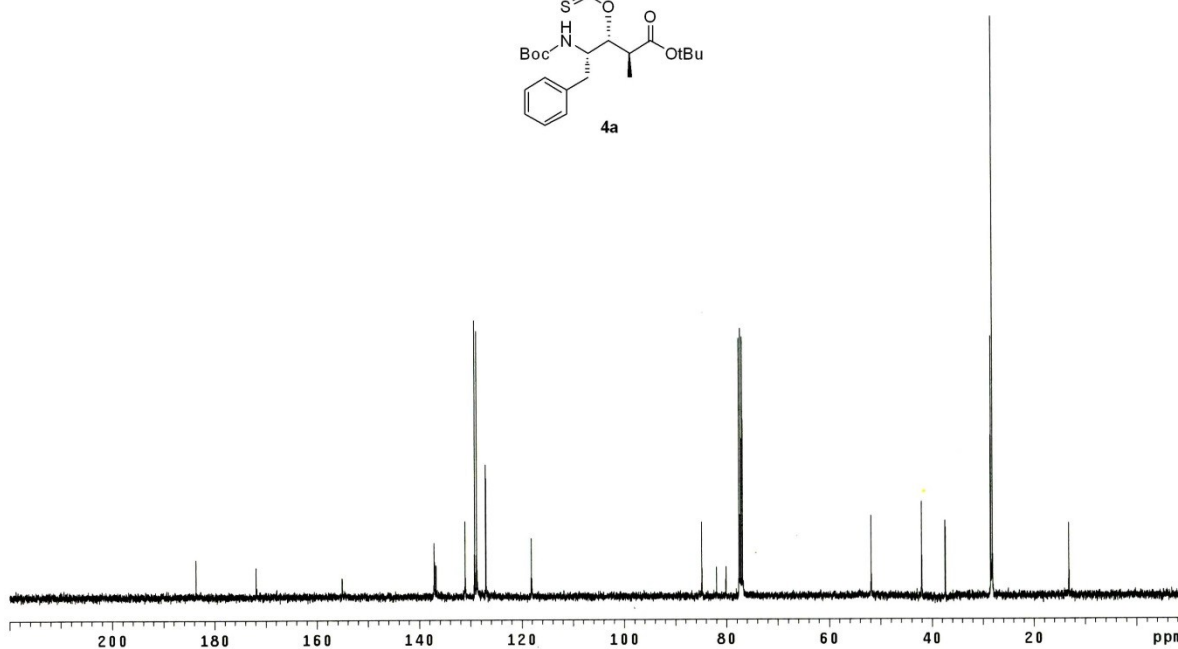
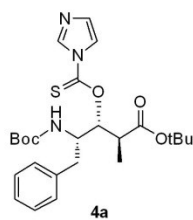
P930IIT6-7-15051211

Pulse Sequence: PROTON (s2pu1)

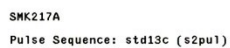


SMK218A

Pulse Sequence: std13c (s2pu1)



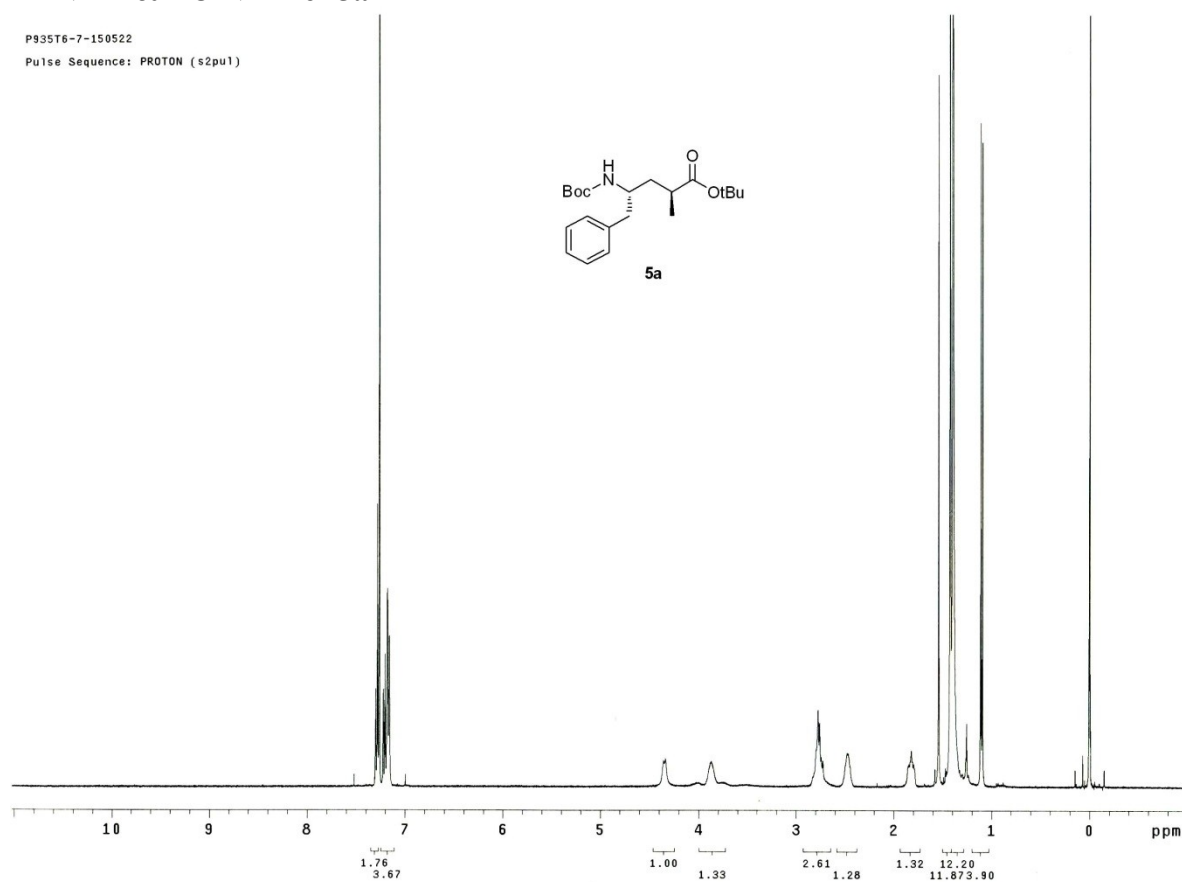
P928IIT21-22-150512II
Pulse Sequence: PROTON (s2pul)



¹H-NMR & ¹³C-NMR of **5a**

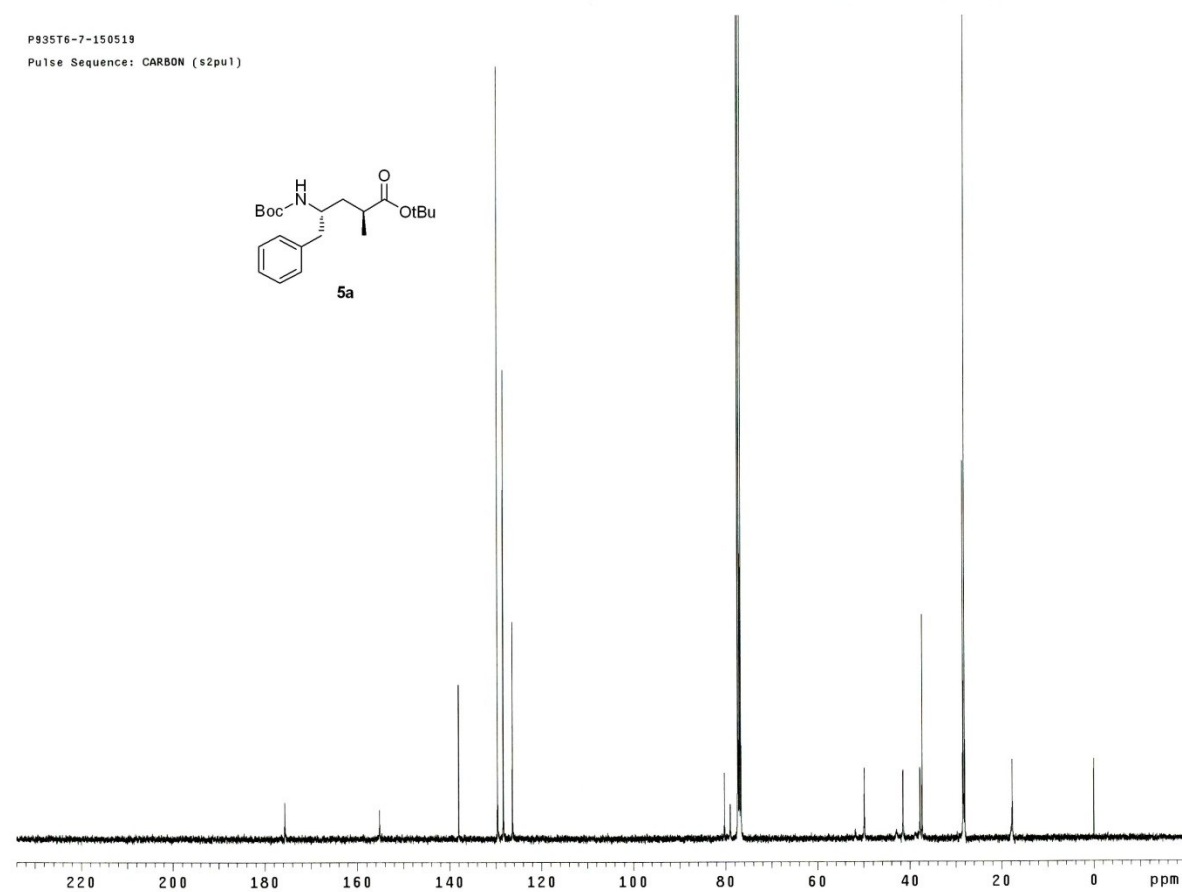
P935T6-7-150522

Pulse Sequence: PROTON (s2pu1)



P935T6-7-150519

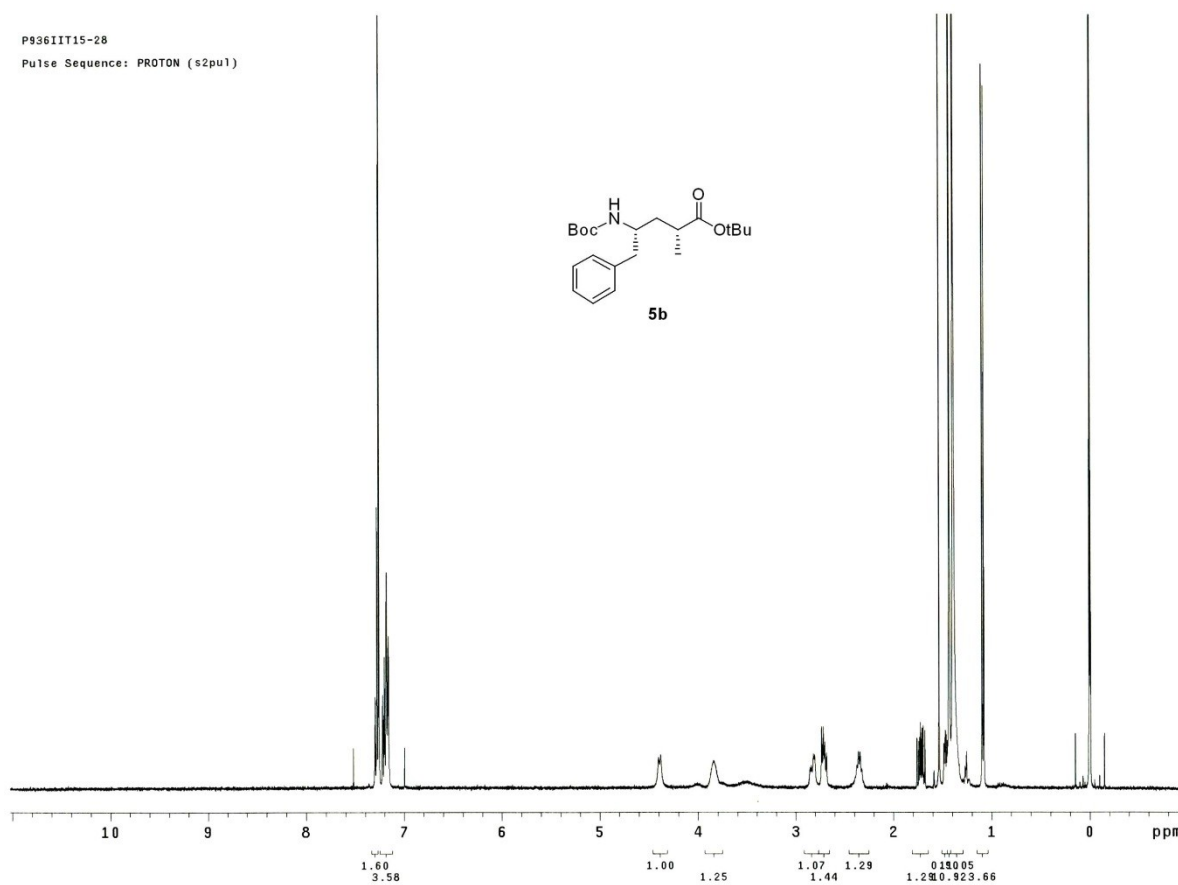
Pulse Sequence: CARBON (s2pu1)



¹H-NMR & ¹³C-NMR of **5b**

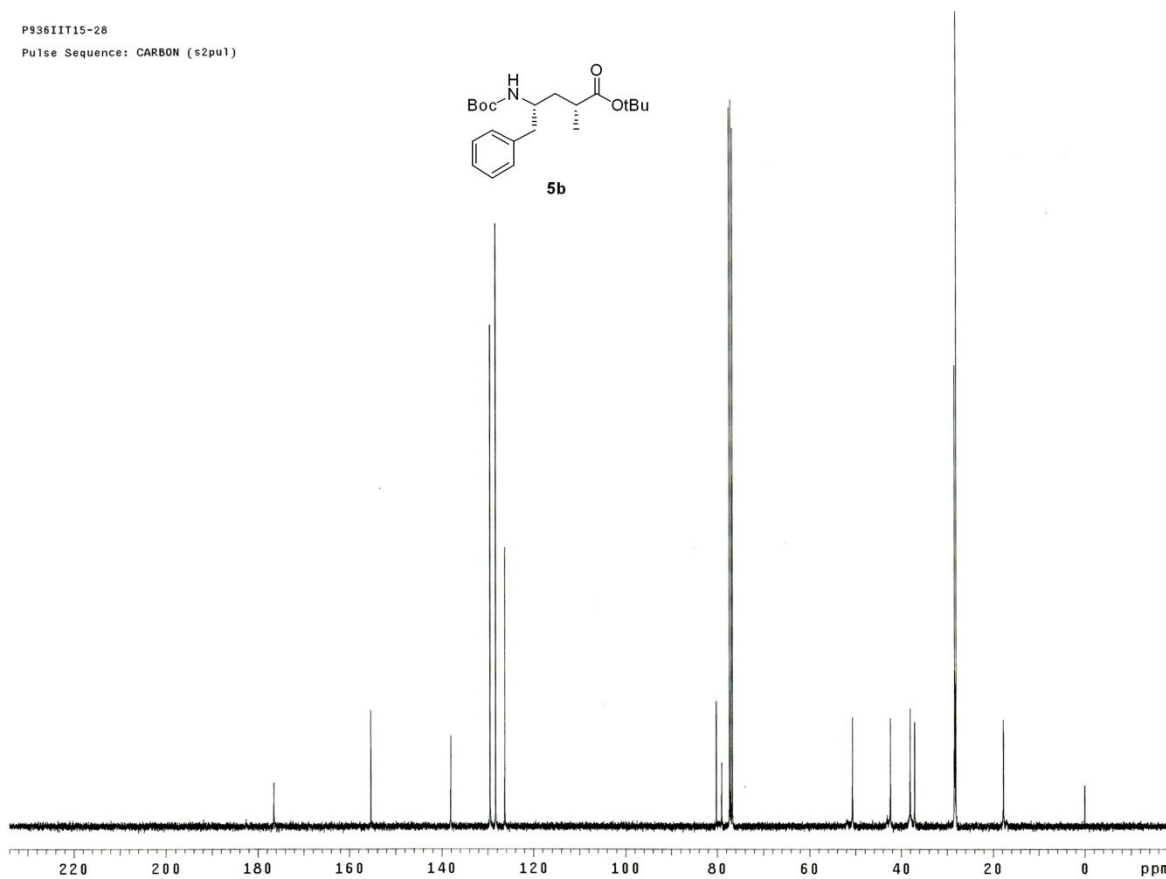
P936IIT15-28

Pulse Sequence: PROTON (s2pu1)



P936IIT15-28

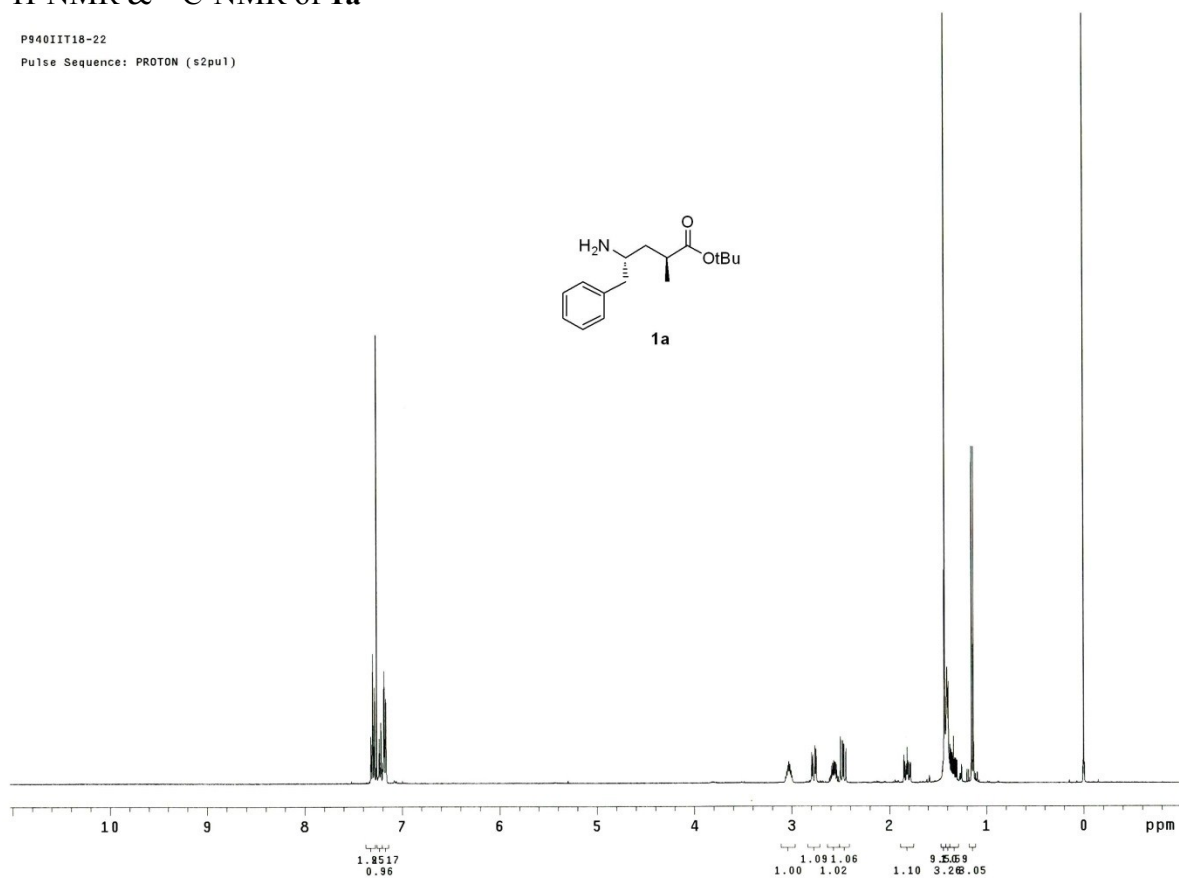
Pulse Sequence: CARBON (s2pu1)



¹H-NMR & ¹³C-NMR of **1a**

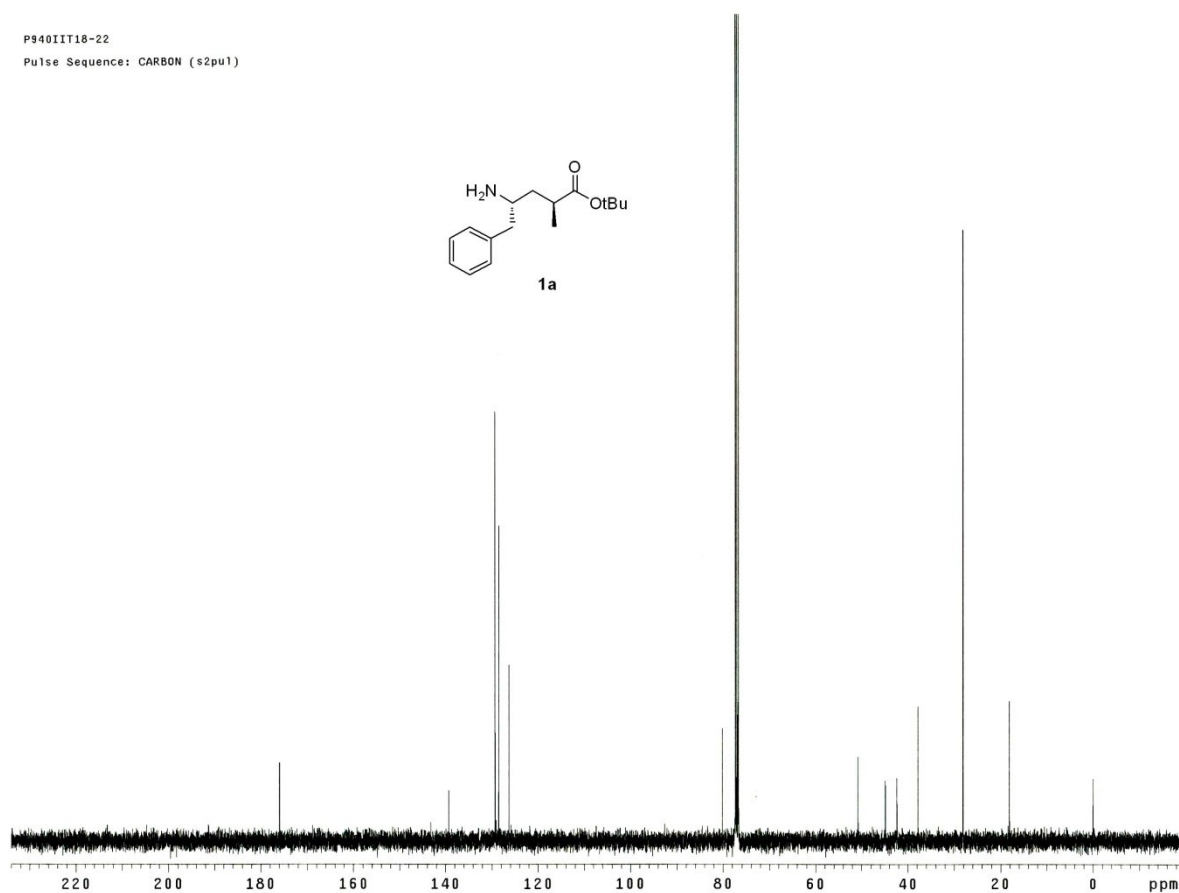
P940IIT18-22

Pulse Sequence: PROTON (s2pu1)



P940IIT18-22

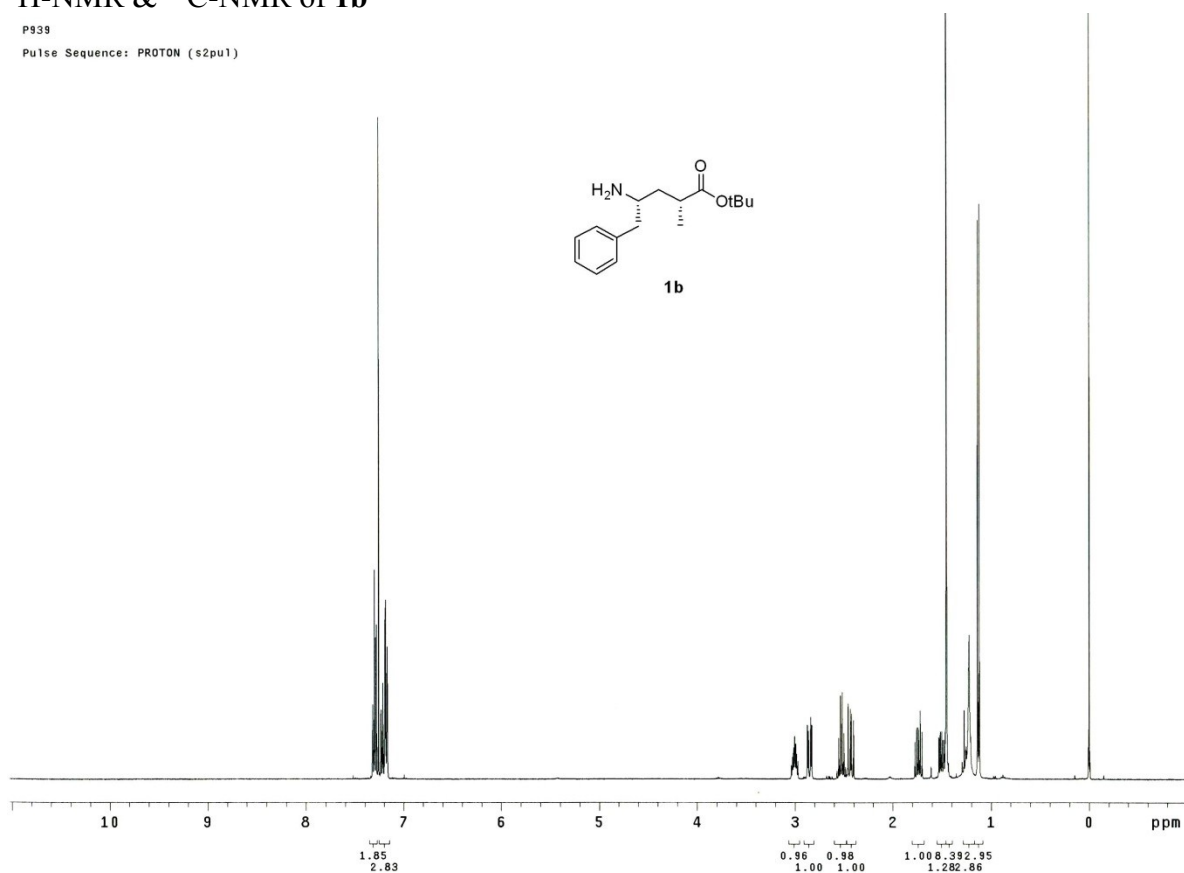
Pulse Sequence: CARBON (s2pu1)



¹H-NMR & ¹³C-NMR of **1b**

P939

Pulse Sequence: PROTON (s2pu1)



P939

Pulse Sequence: CARBON (s2pu1)

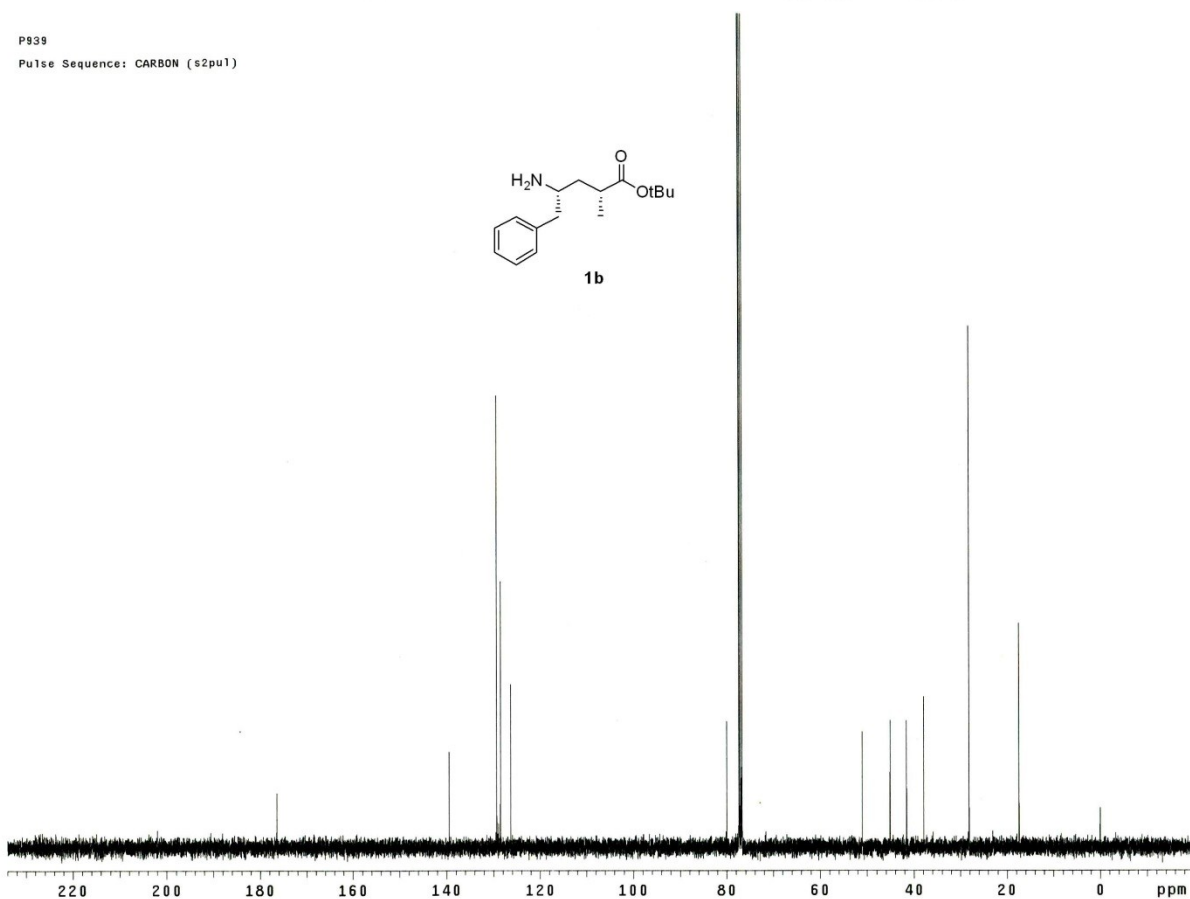


Figure 1 displays the ^1H NMR spectra of compound **3a** in CDCl_3 . The top spectrum shows the full ^1H NMR spectrum with peaks labeled: NH, 3, 4, 5, 5', 2 OH, and 1. The chemical structure of **3a** is shown in the top left corner. The subsequent four spectra are zoomed-in regions of the full spectrum, showing the chemical shifts (ppm) and integration values for specific peaks. The chemical structures of **3a** are also shown in the zoomed-in regions, highlighting the stereochemistry and the phenyl group.

Serial NOE experiments of **3b**

