

Photocatalytic acyl azolium-promoted alkoxy carbonylation of trifluoroborates

Joshua L. Zhu[†] and Karl A. Scheidt^{*†}

[†]Department of Chemistry, Northwestern University, Evanston, IL 60208 (USA)

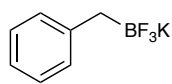
Supporting Information

Table of Contents

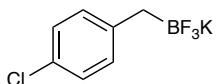
Table of Contents	S1
List of Compounds	S2
Selected NMR Spectra	S5

List of Compounds

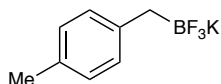
Potassium Trifluoroborates



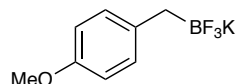
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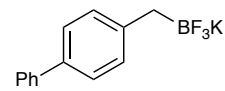
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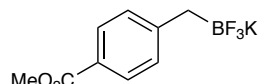
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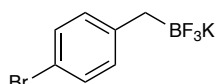
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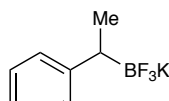
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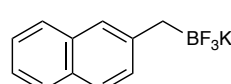
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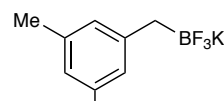
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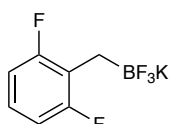
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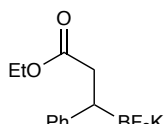
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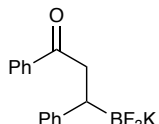
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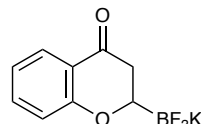
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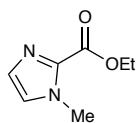


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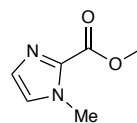


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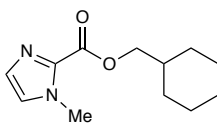
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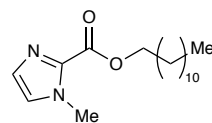
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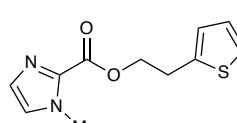
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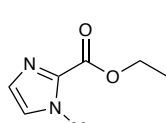
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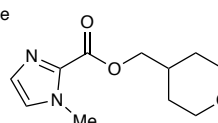
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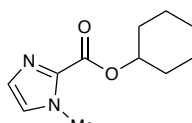
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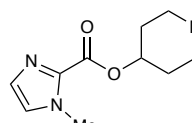
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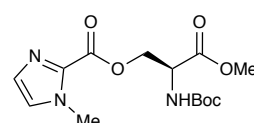
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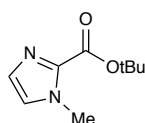
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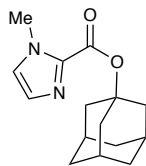
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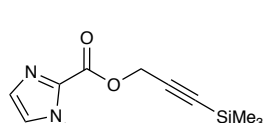
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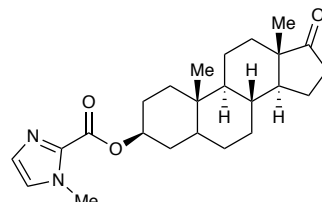
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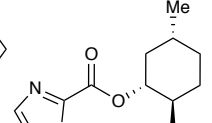
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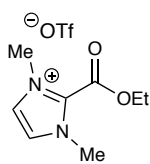


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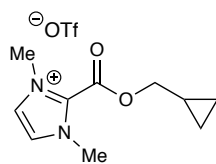


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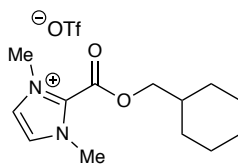
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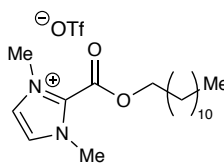
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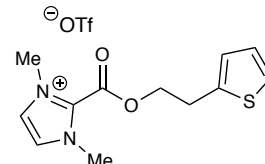
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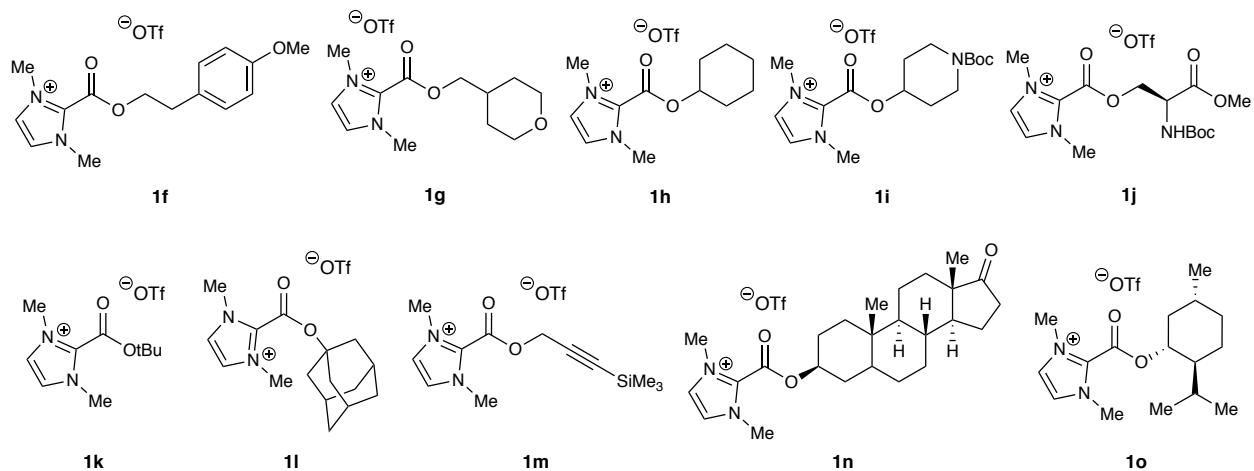


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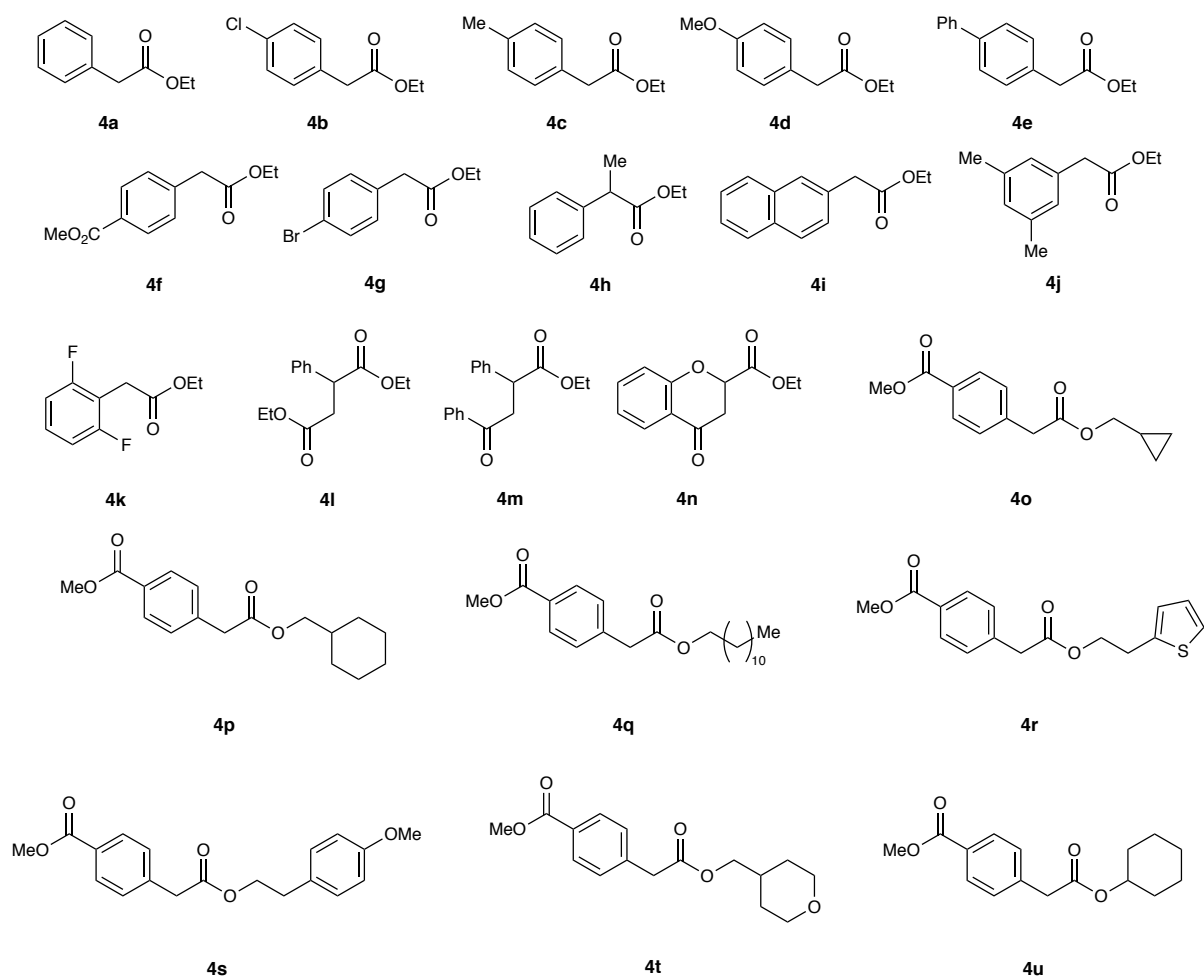


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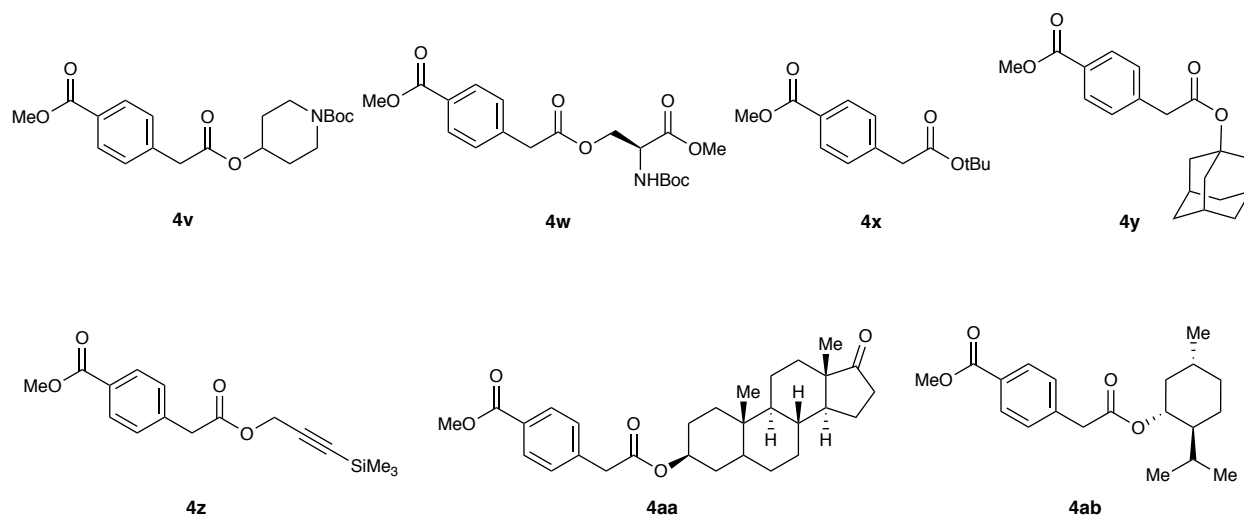
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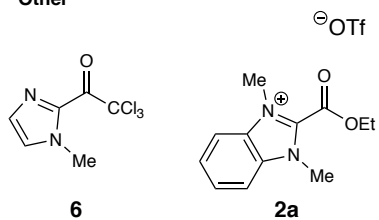
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Supporting Information



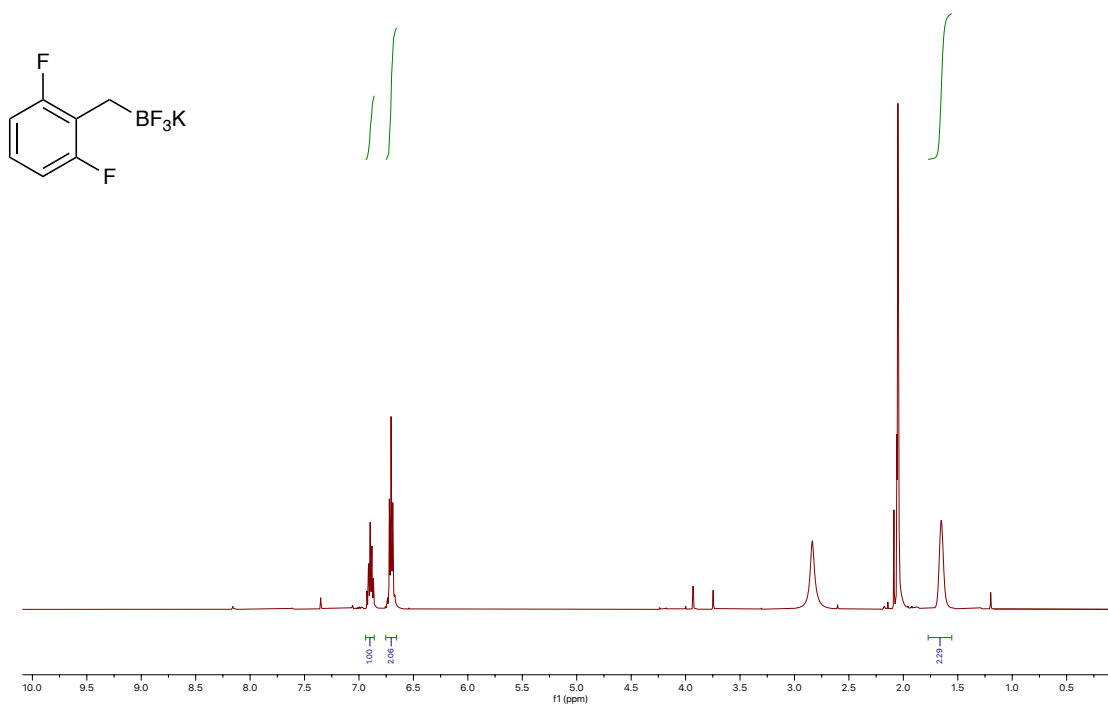
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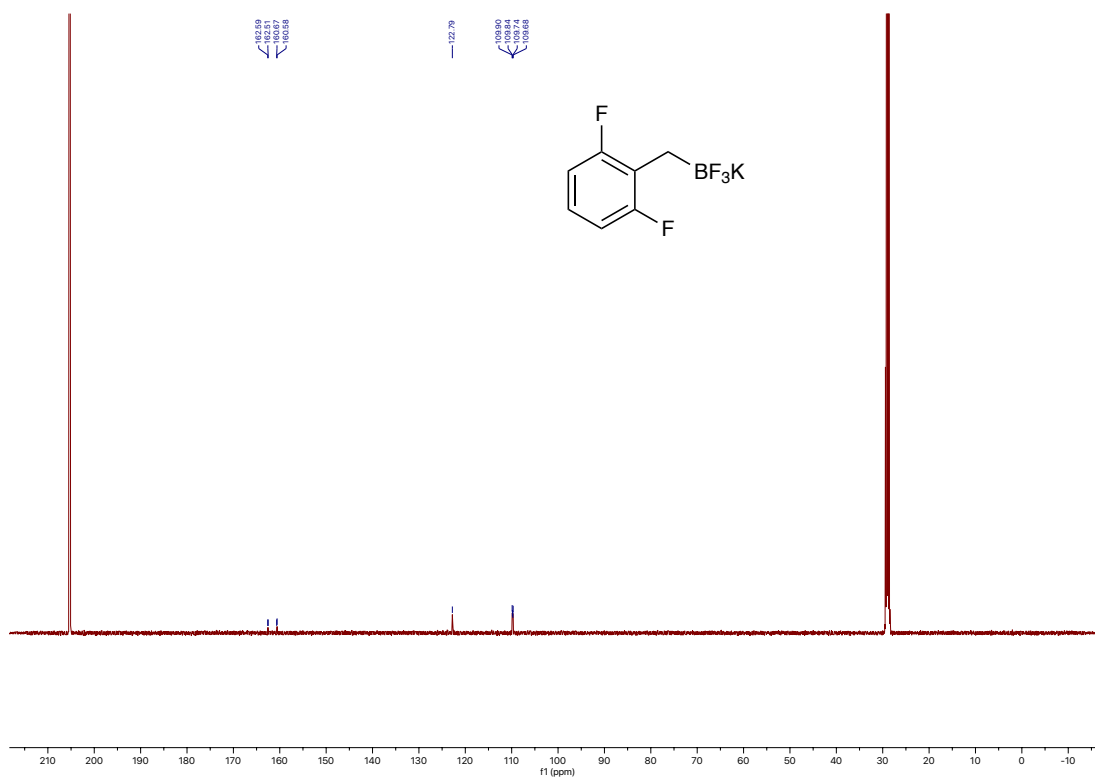
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Selected NMR Spectra

^1H NMR of **3k**

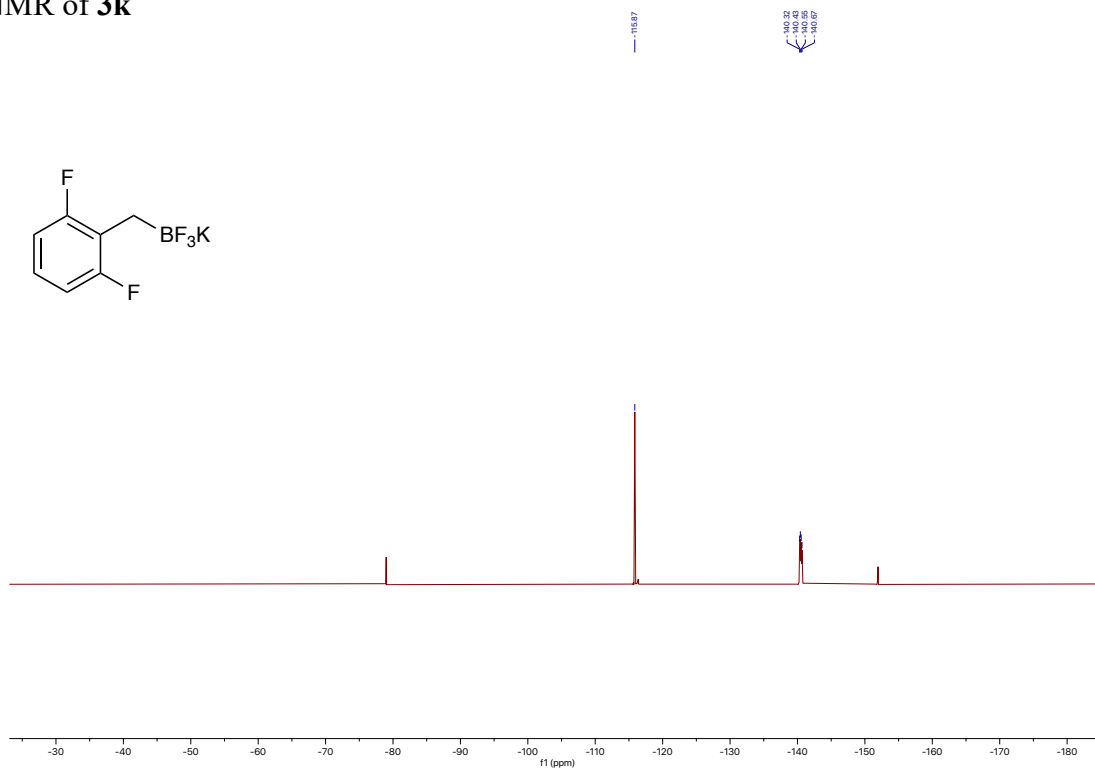


^{13}C NMR of **3k**

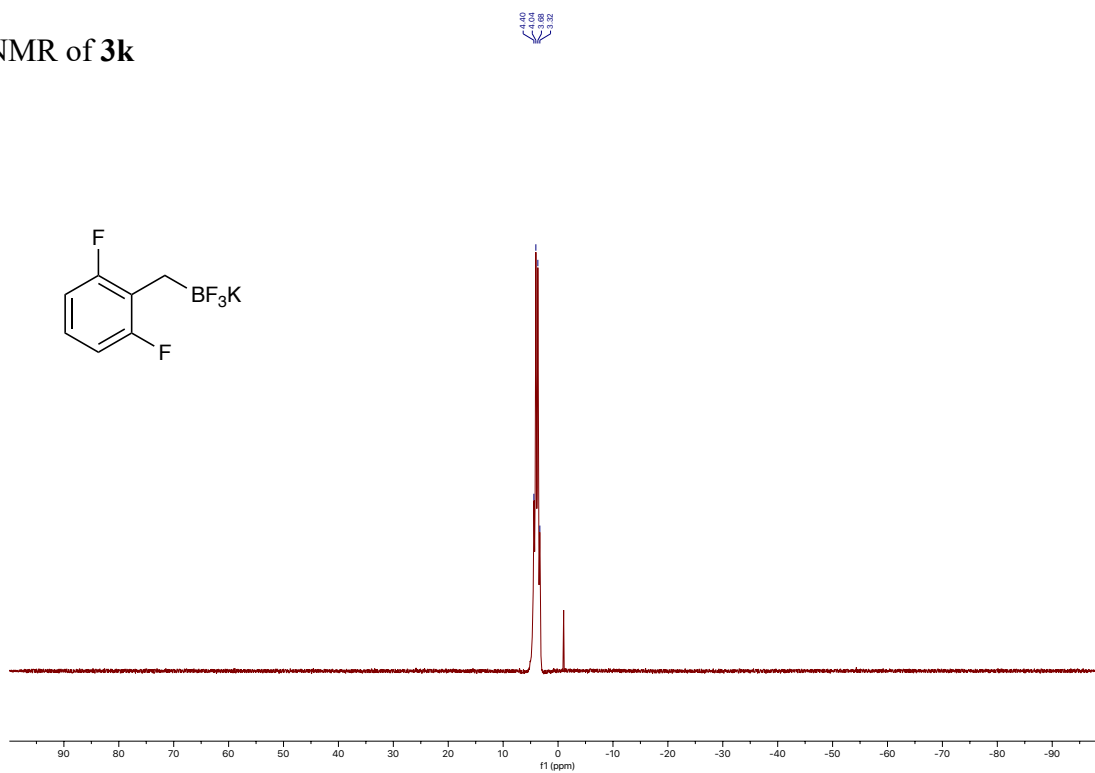


Supporting Information

^{19}F NMR of **3k**

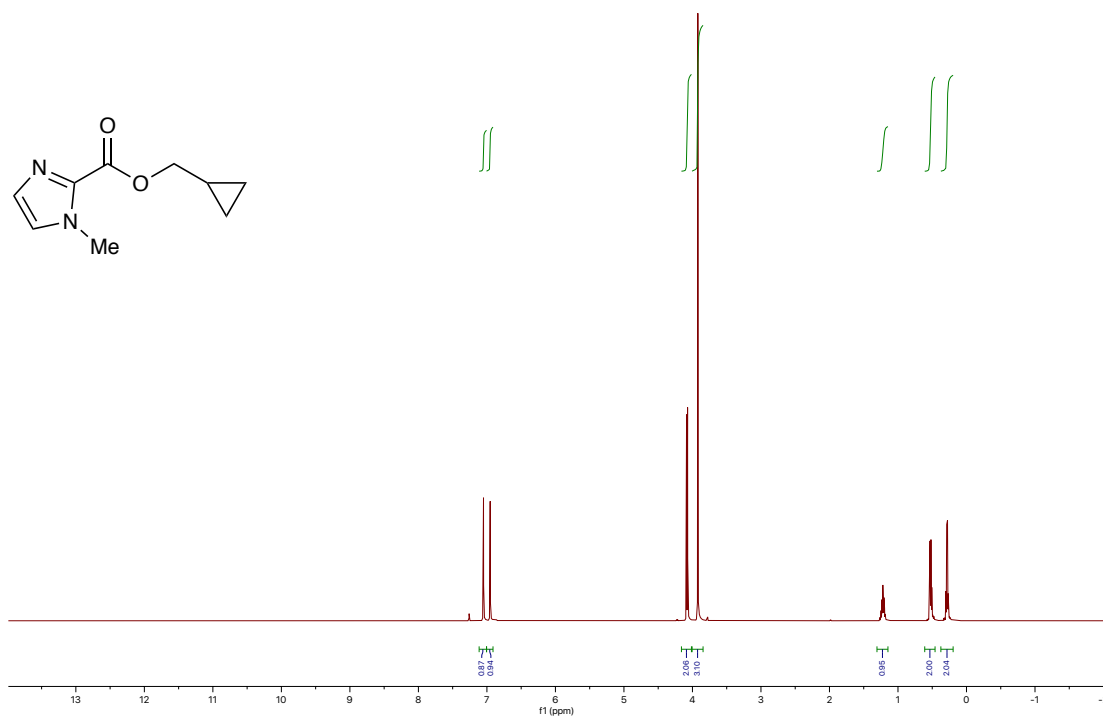


^{11}B NMR of **3k**

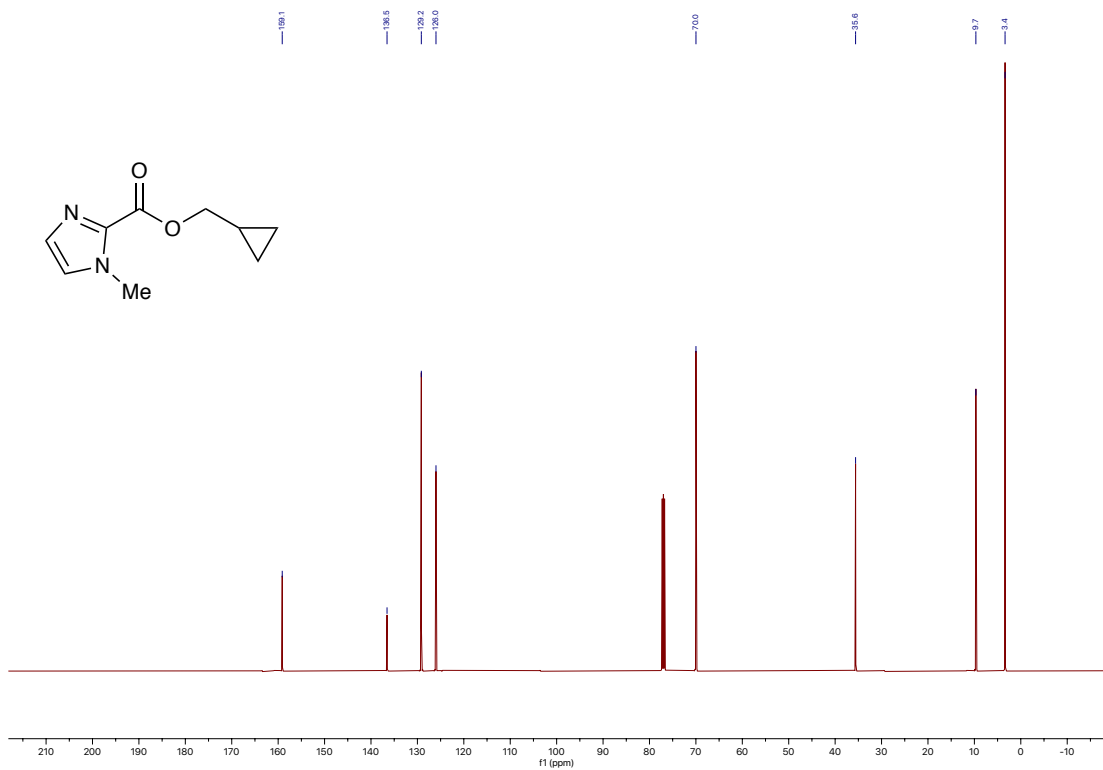


Supporting Information

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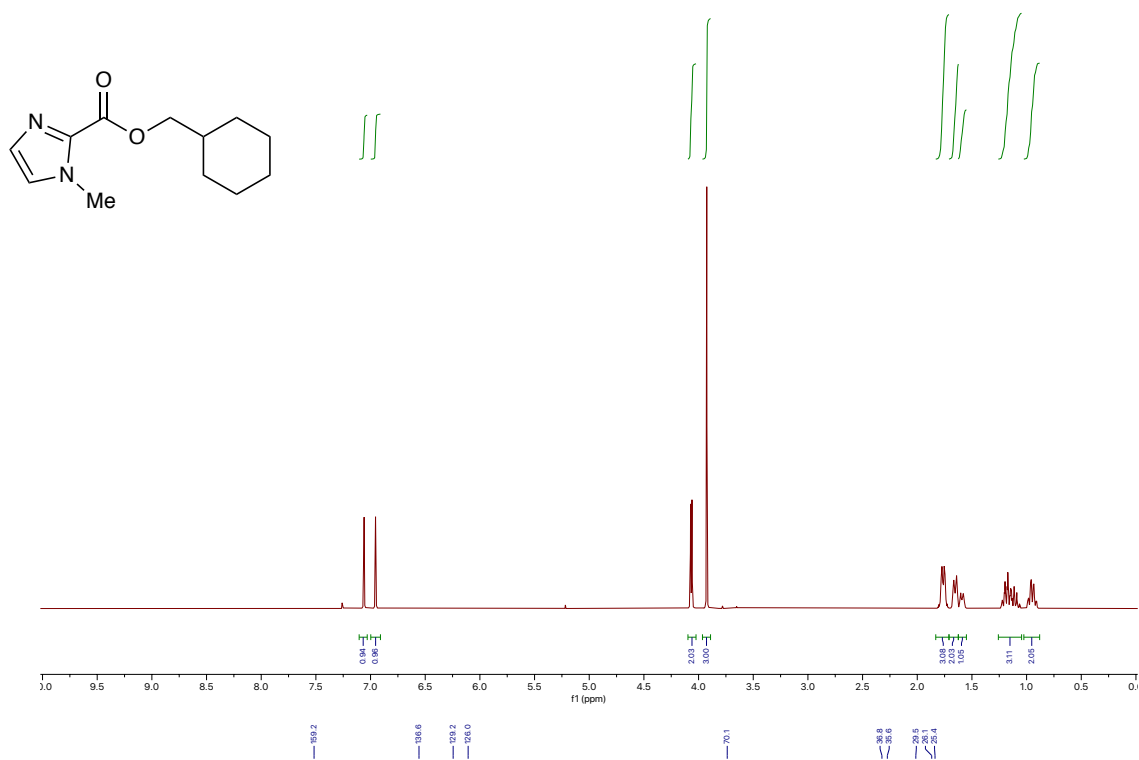


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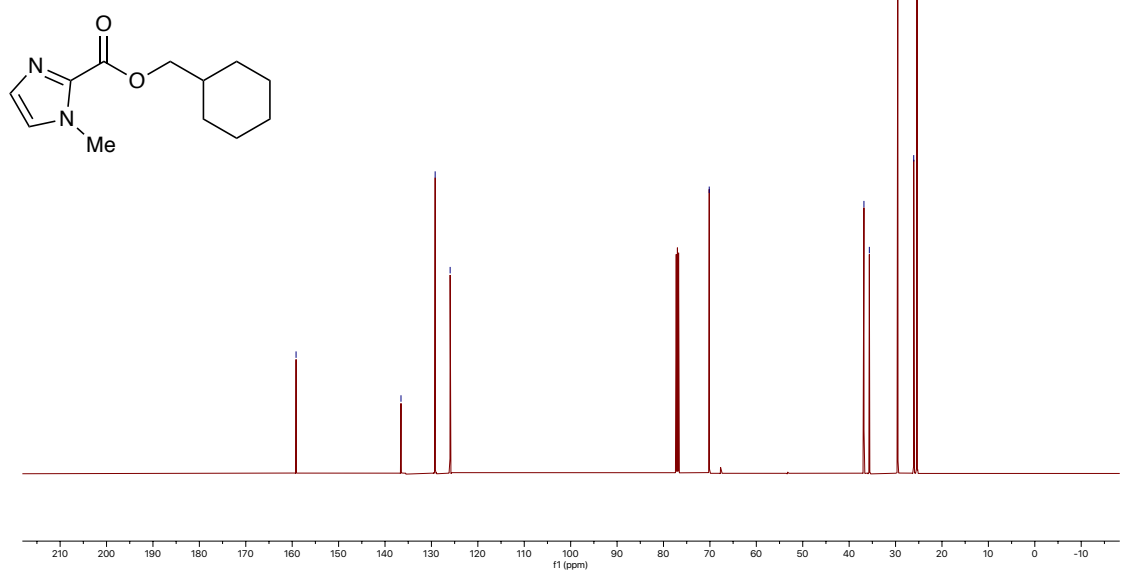


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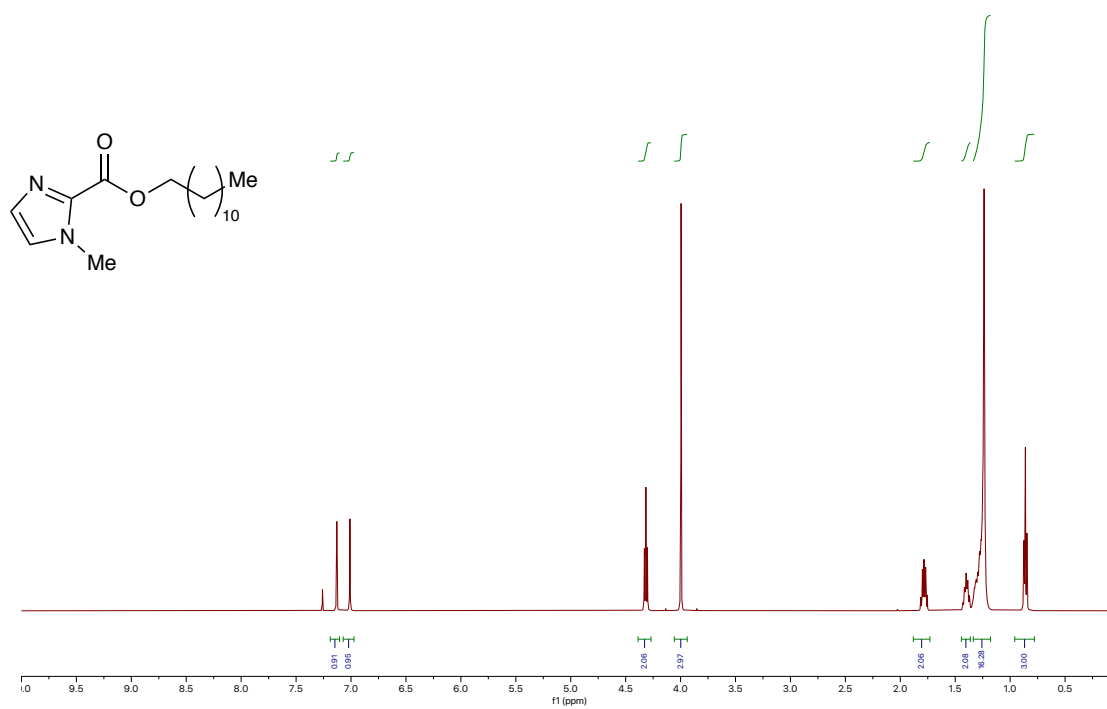


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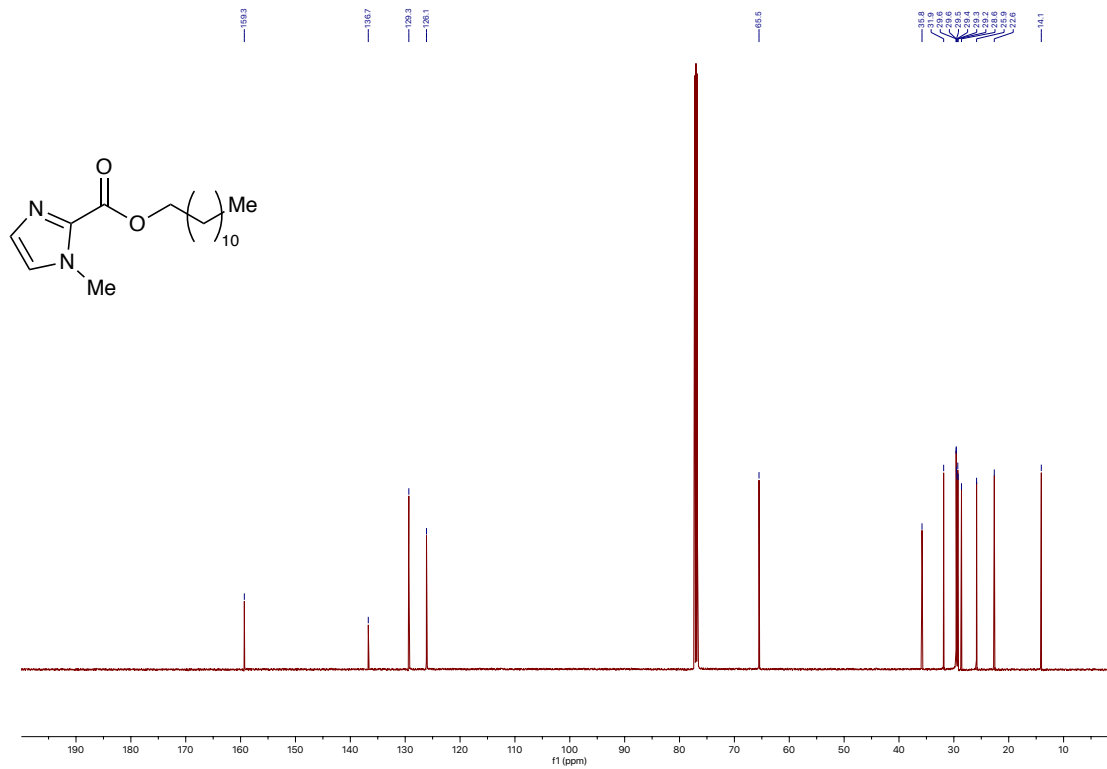


Supporting Information

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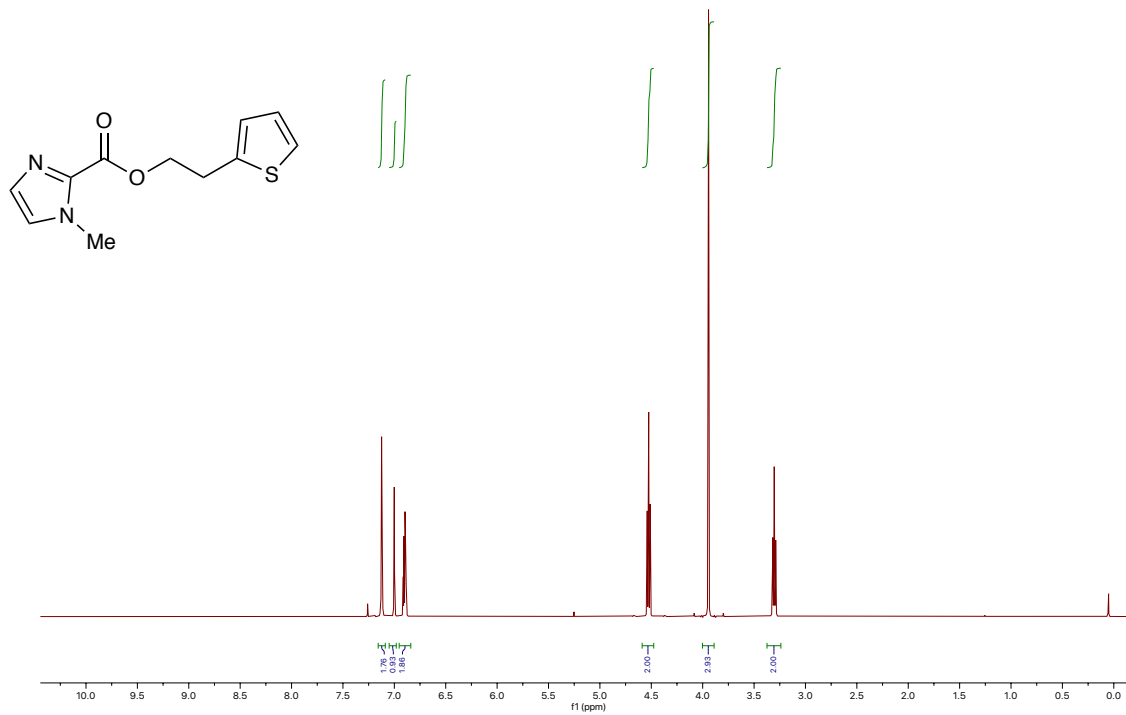


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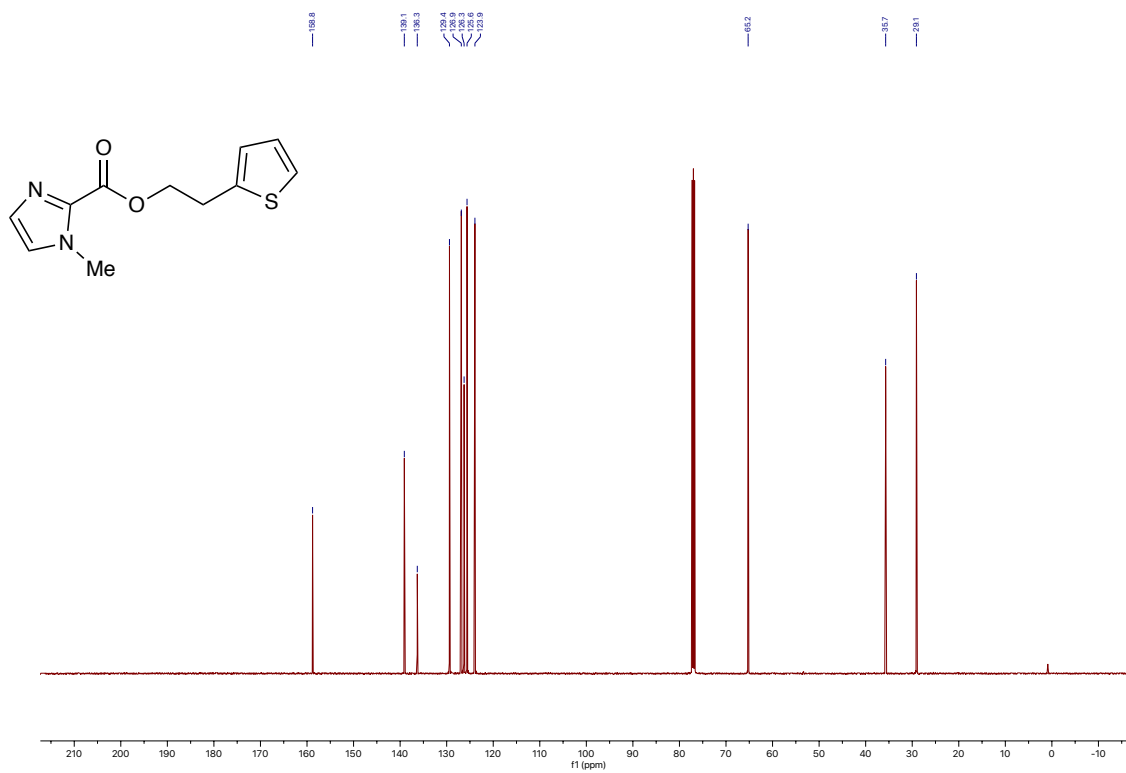


Supporting Information

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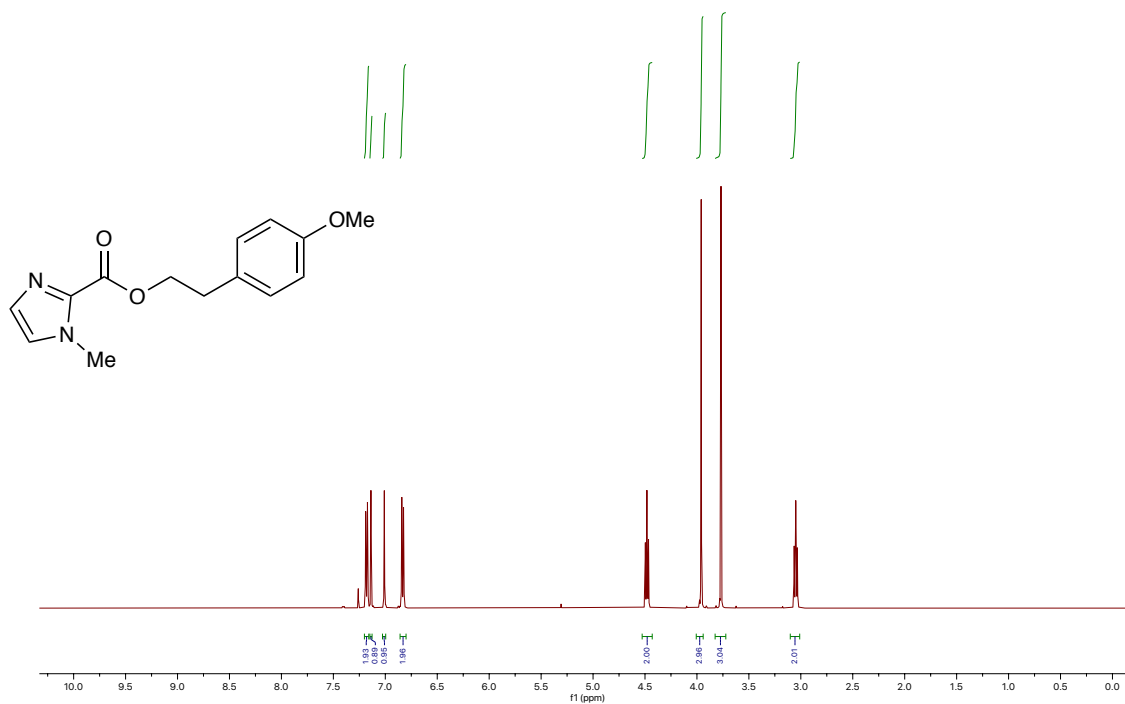


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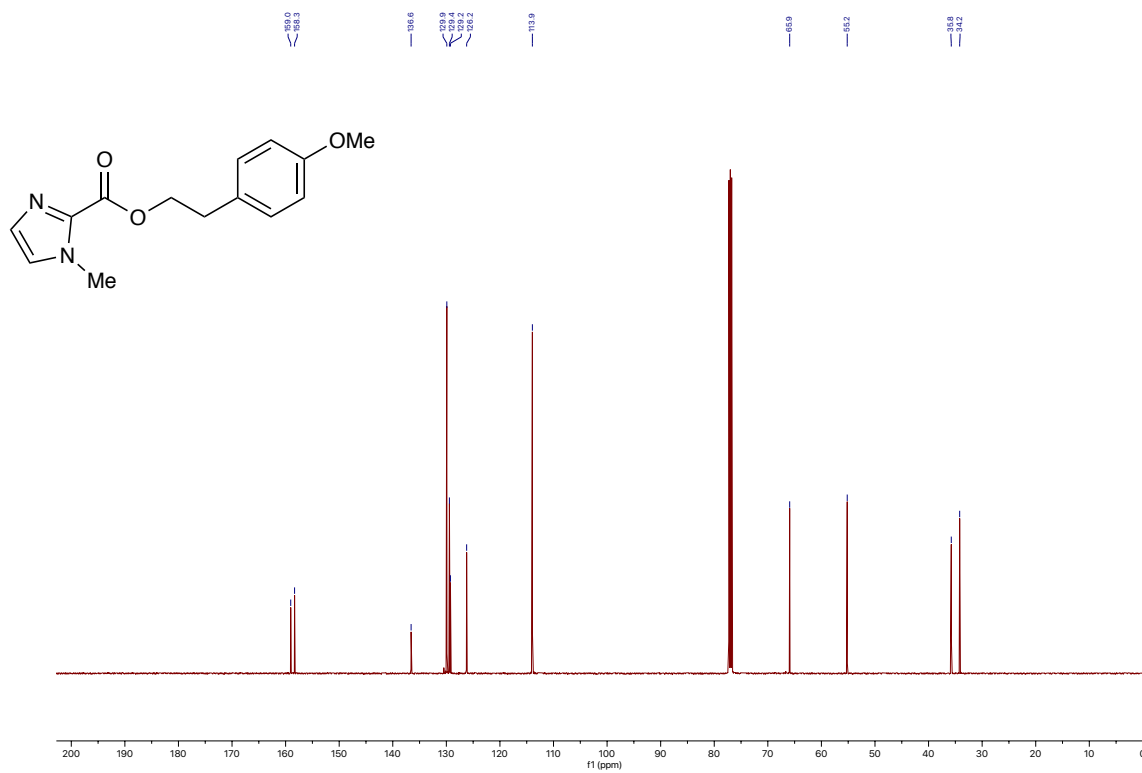


Supporting Information

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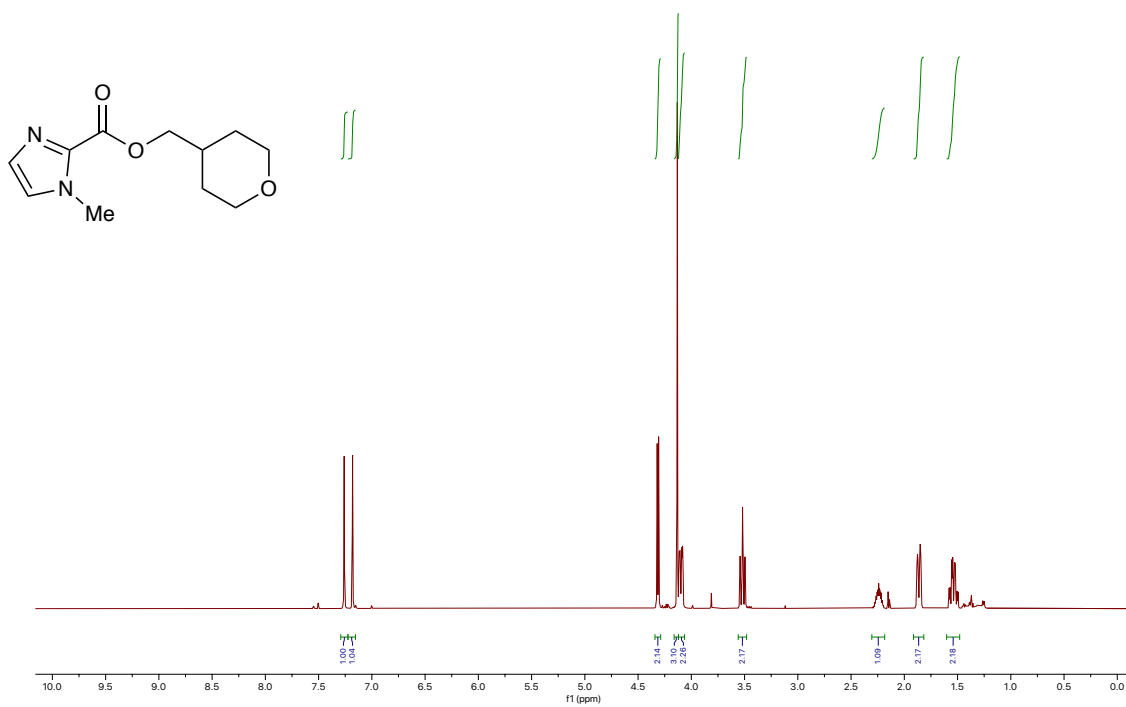


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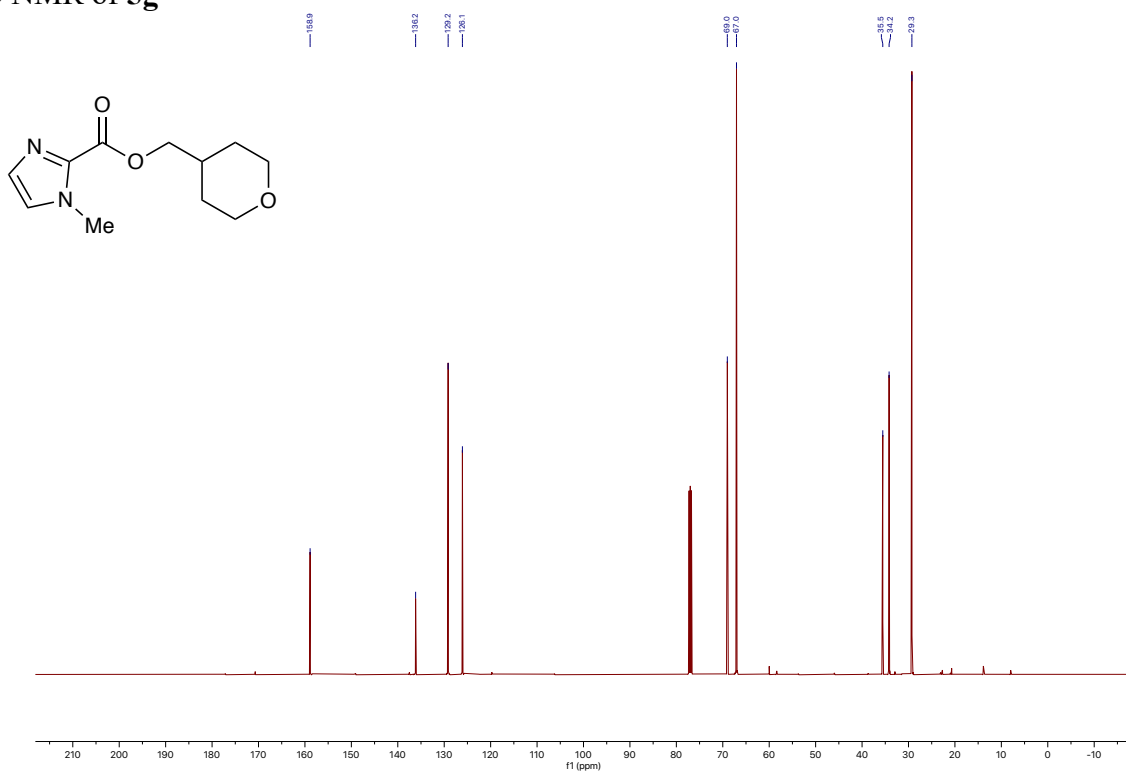


Supporting Information

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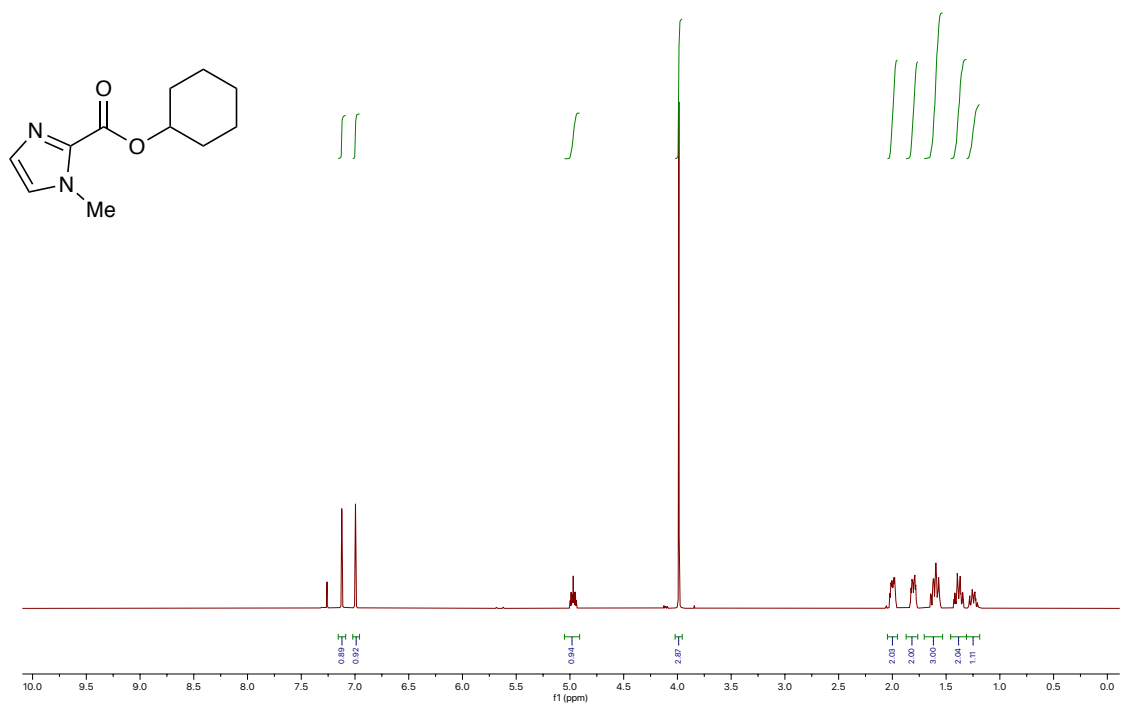


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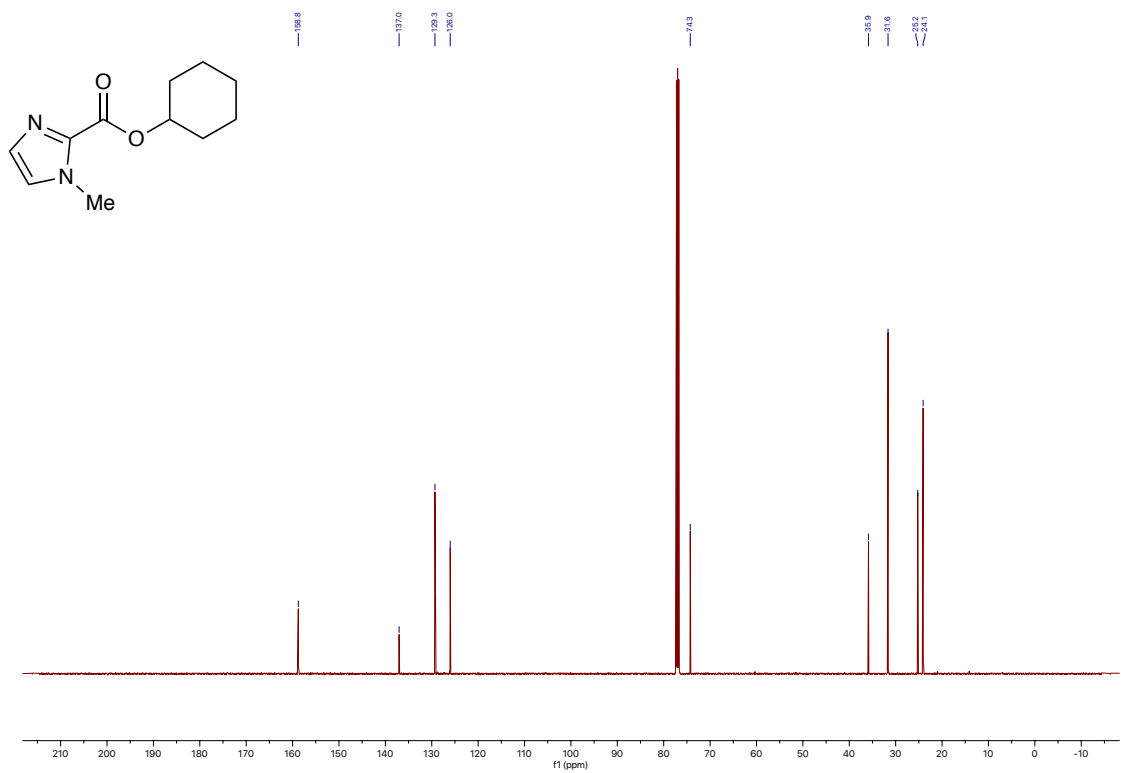


Supporting Information

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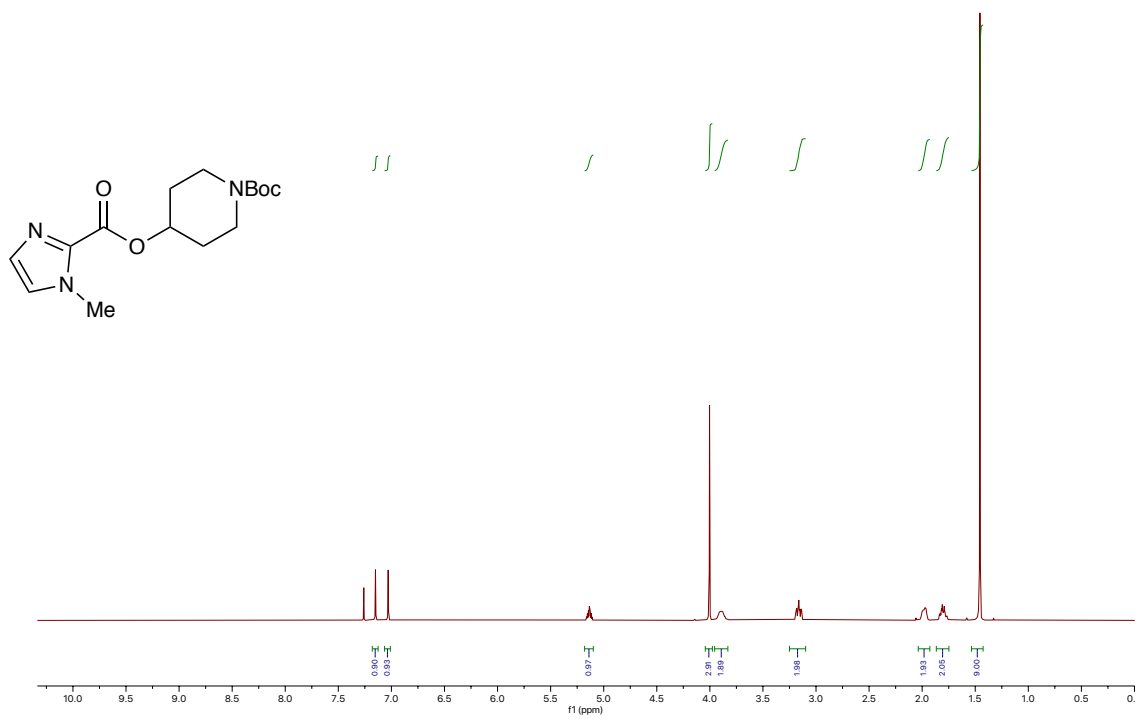


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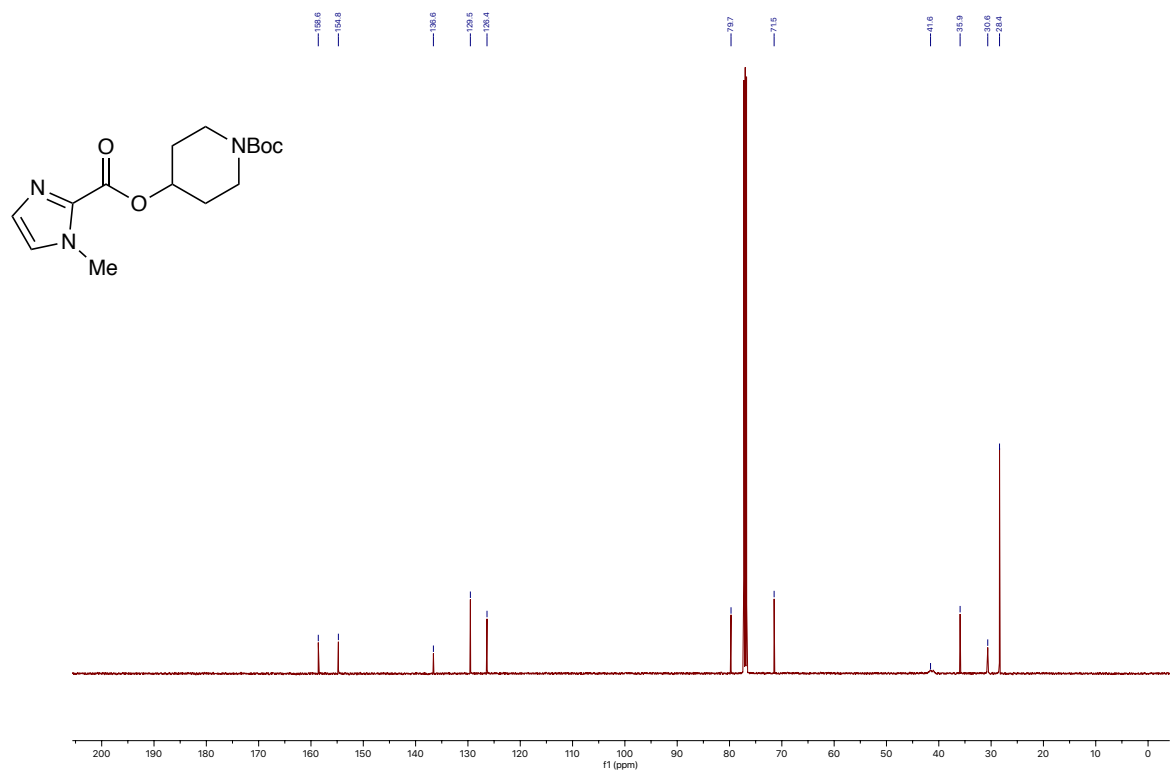


Supporting Information

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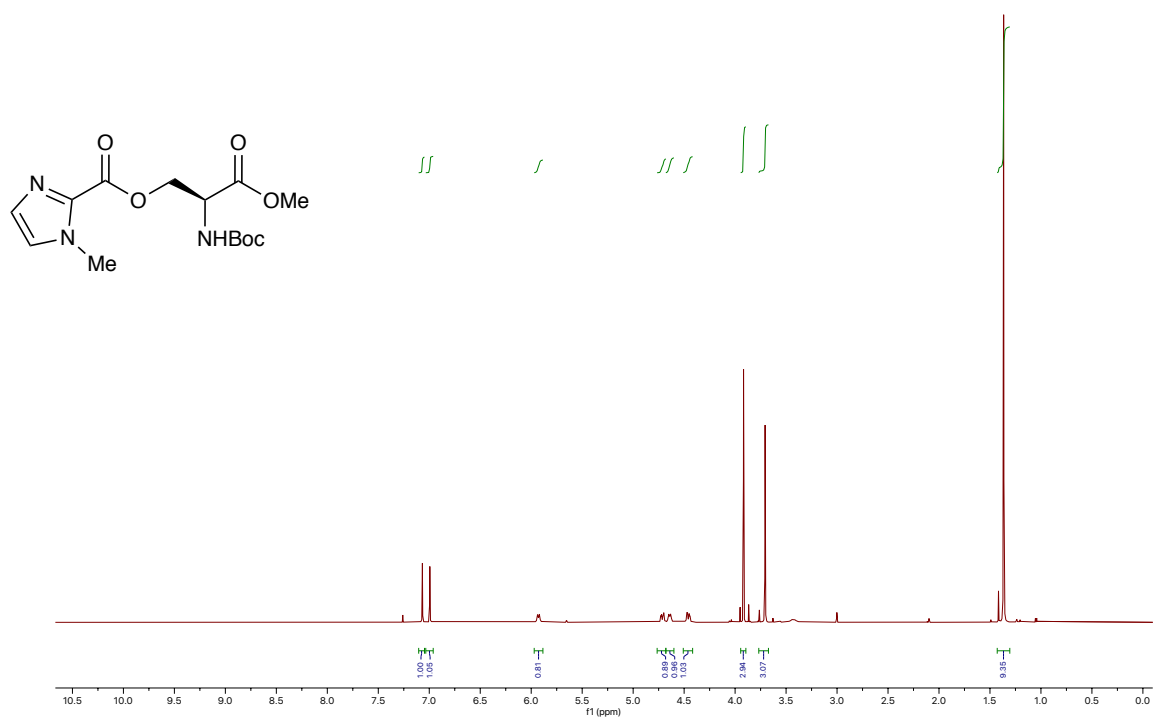


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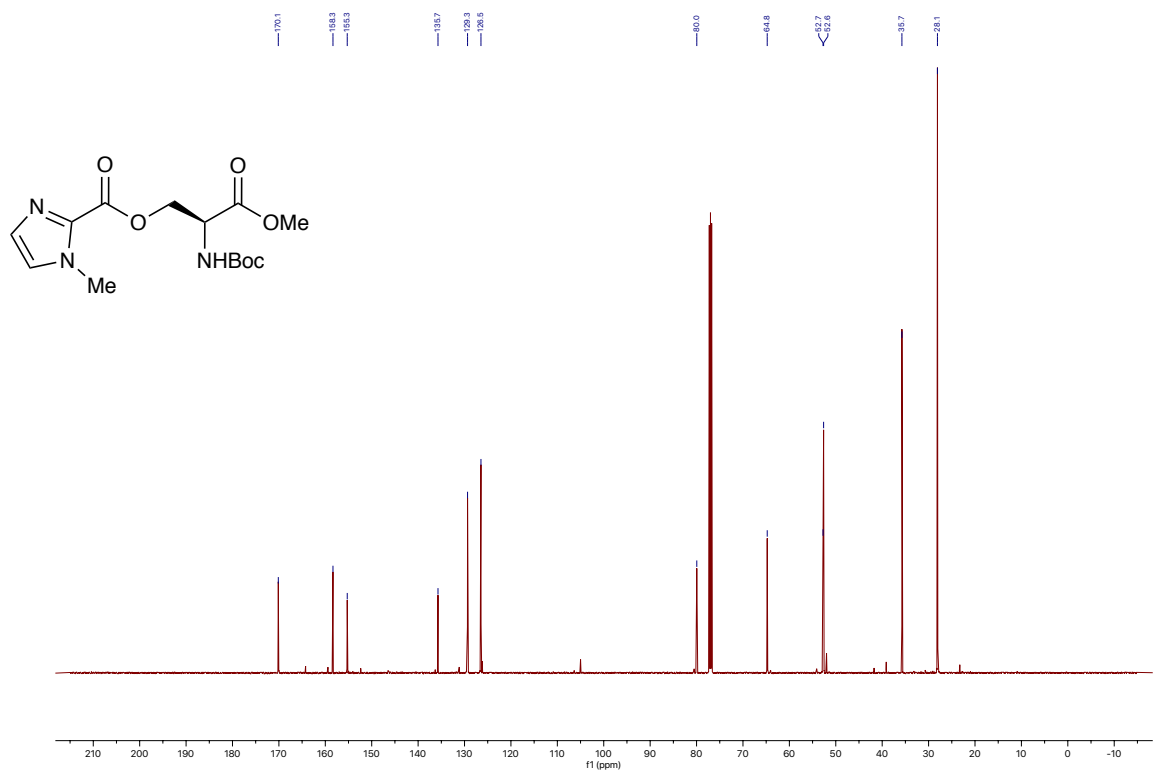


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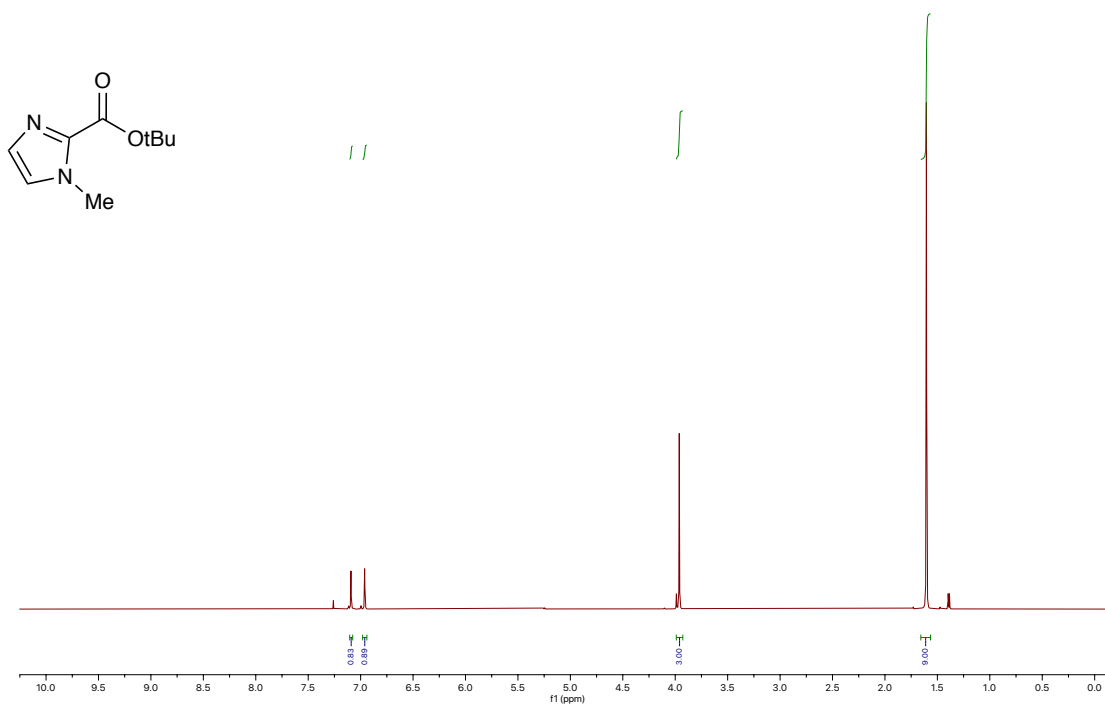


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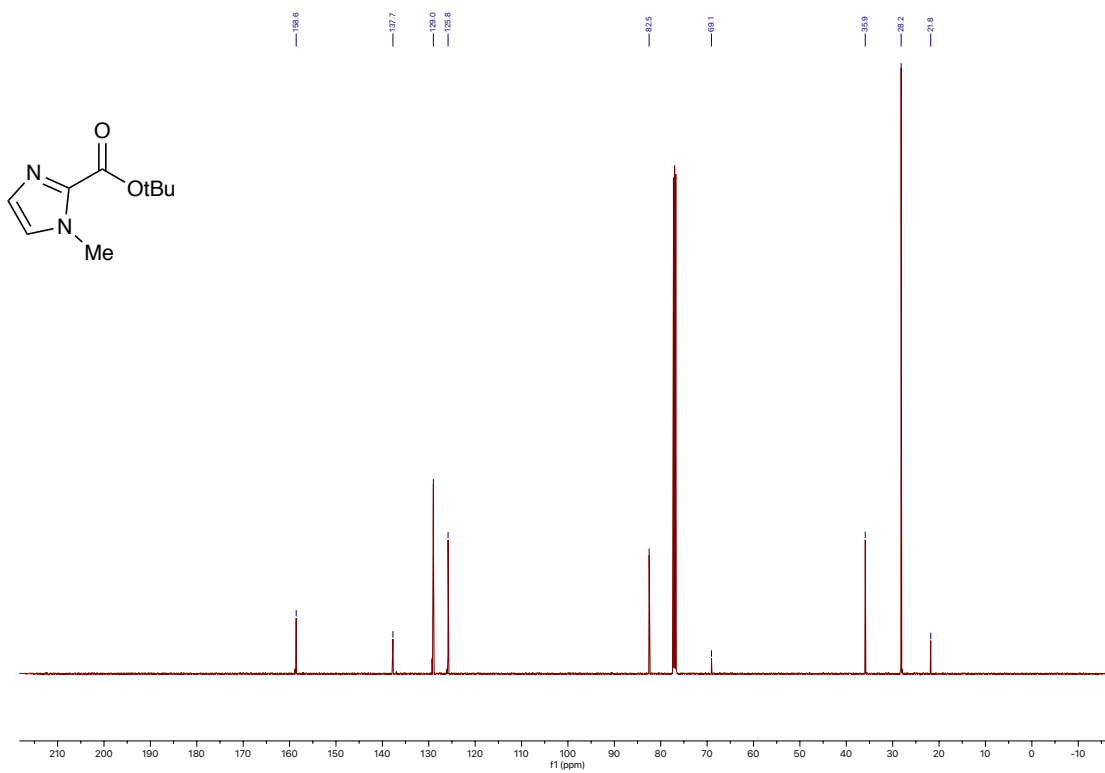


Supporting Information

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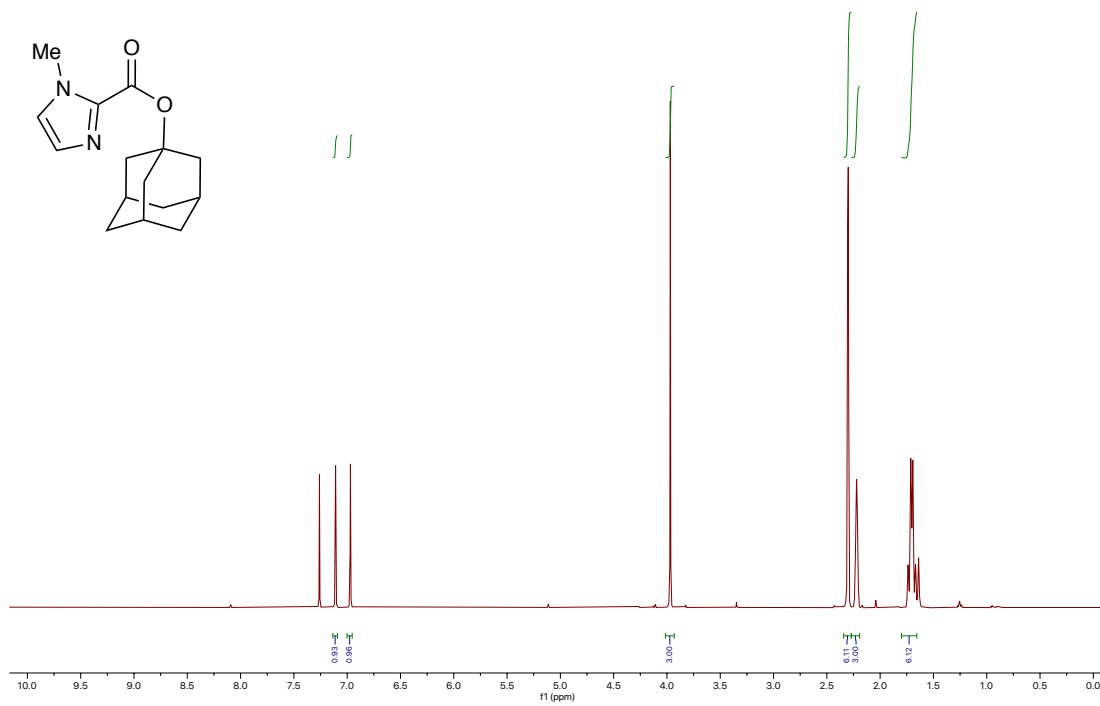


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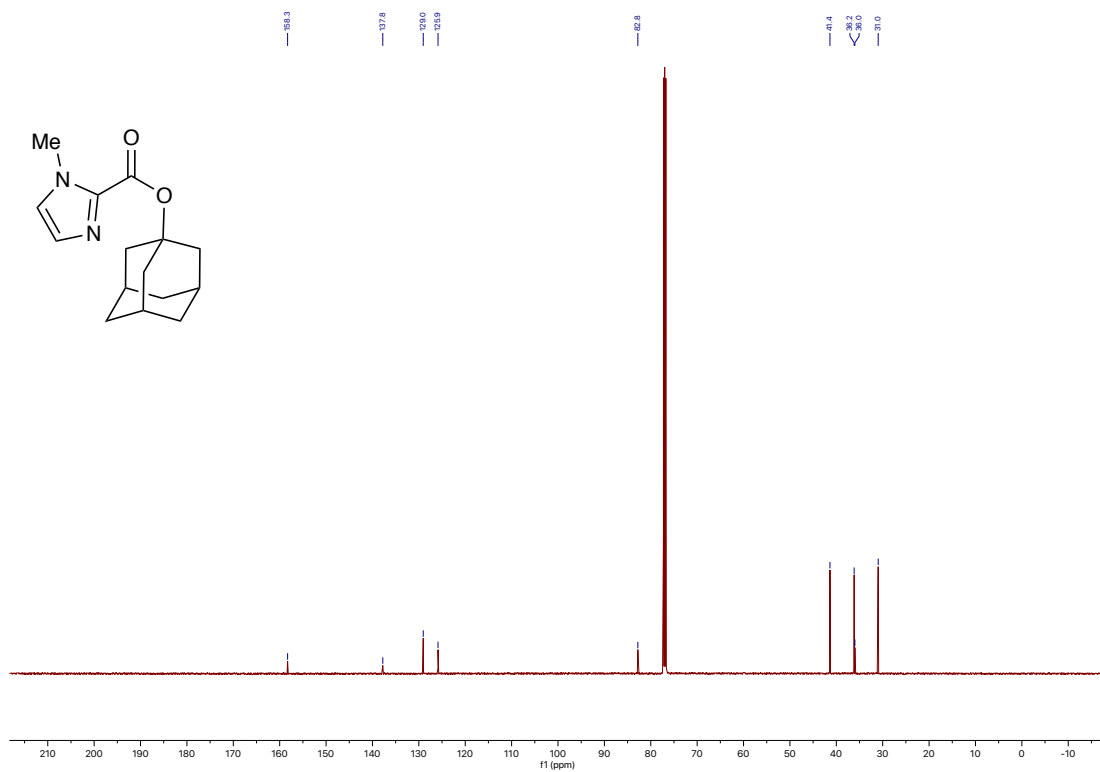


Supporting Information

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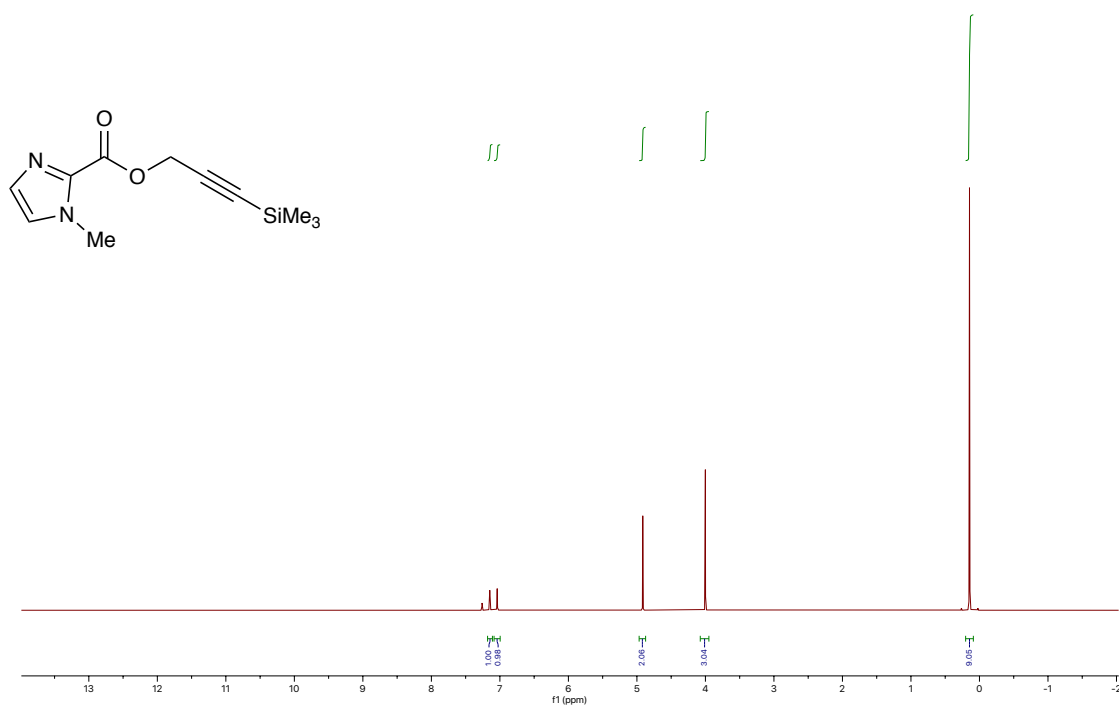


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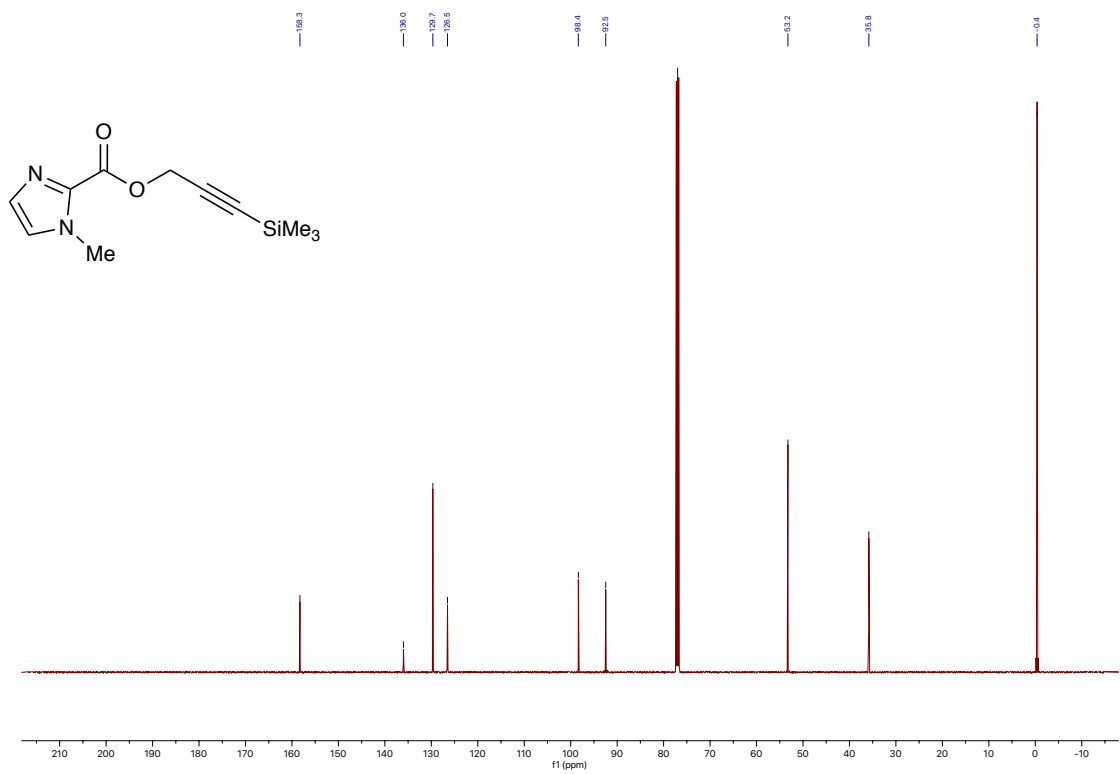


Supporting Information

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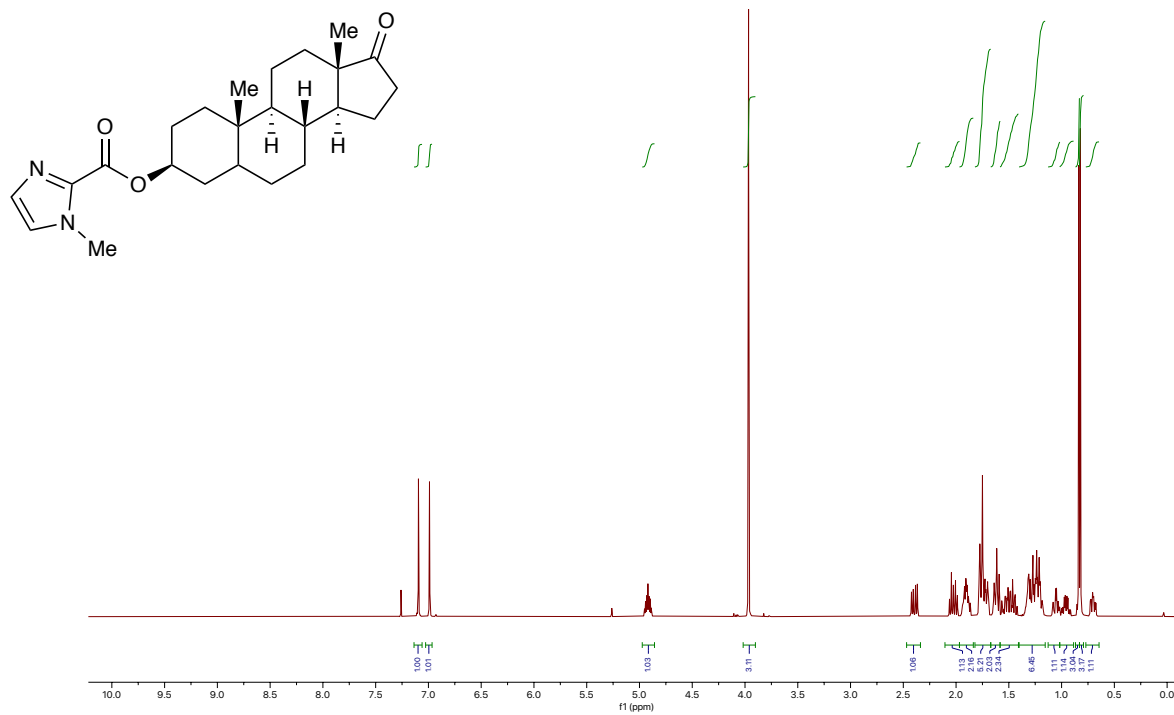


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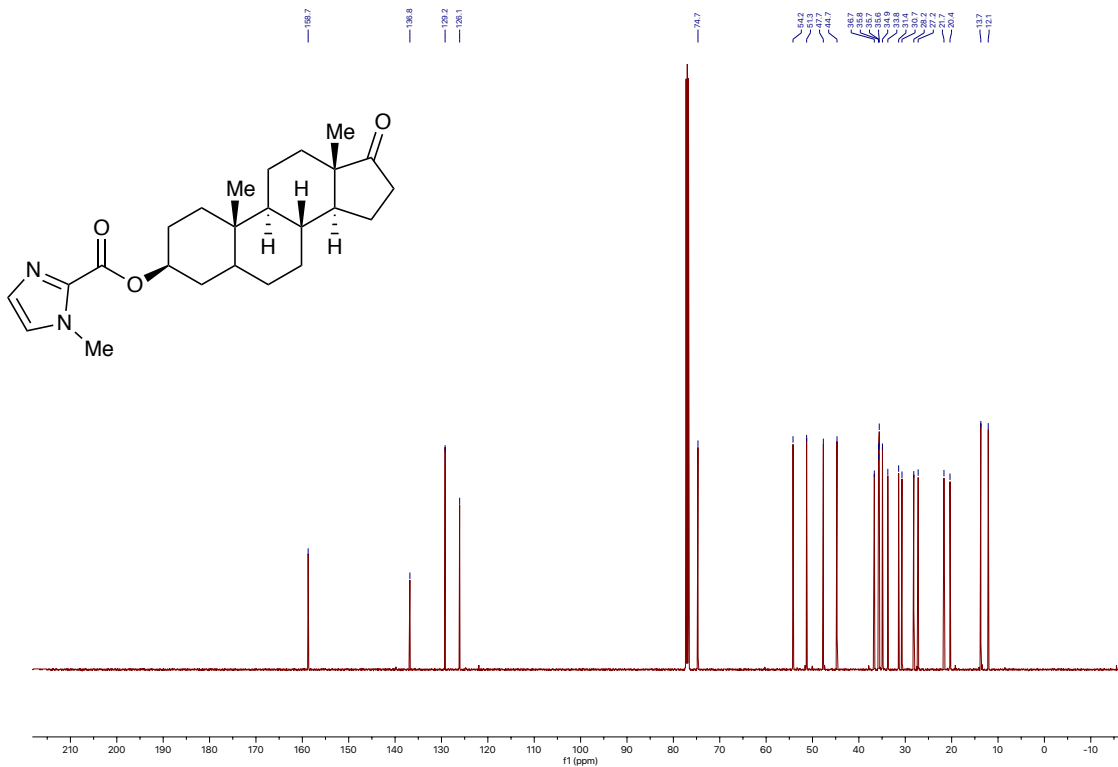


Supporting Information

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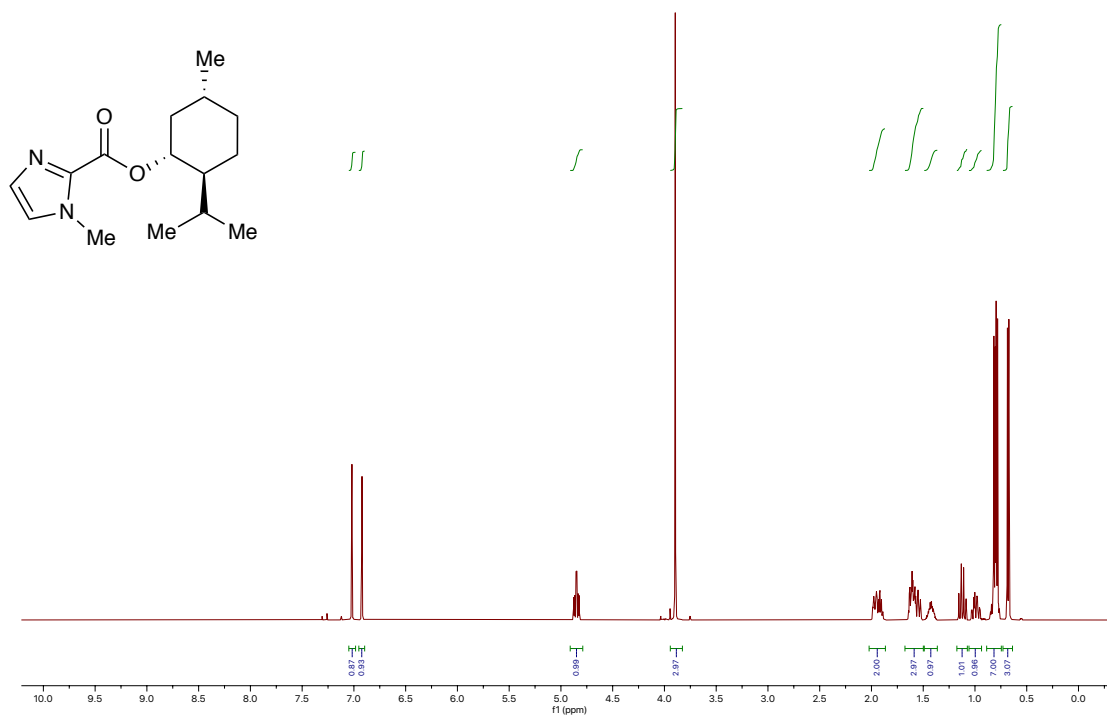


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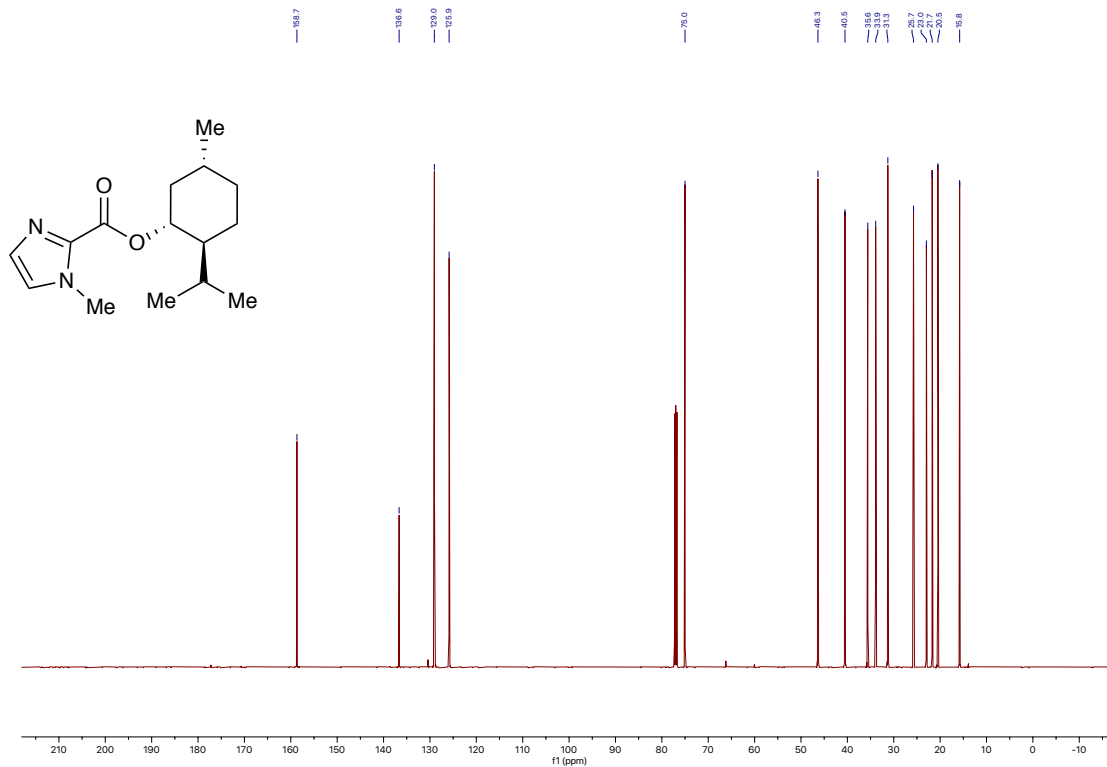


Supporting Information

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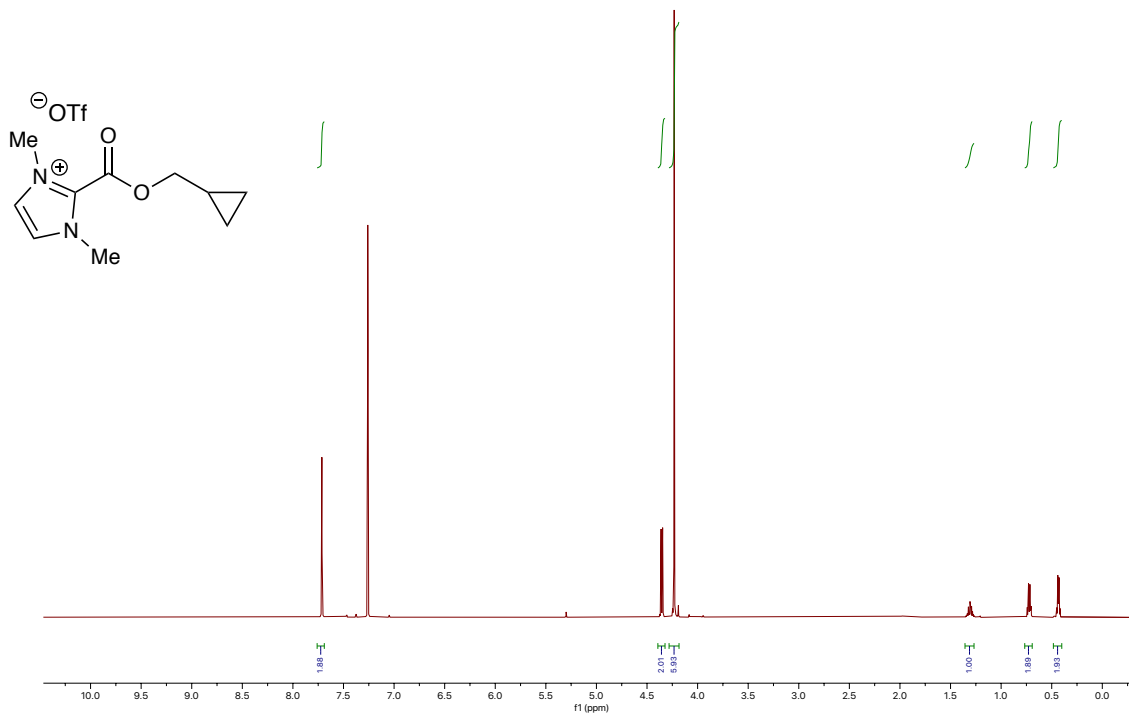


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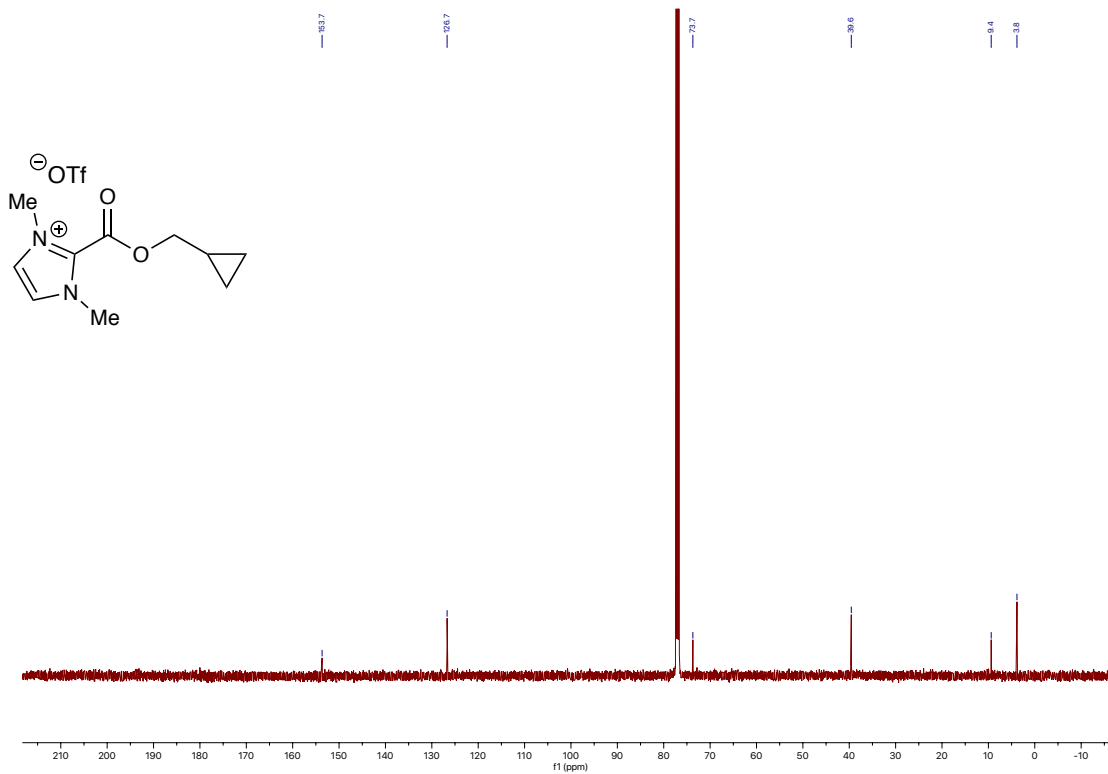


Supporting Information

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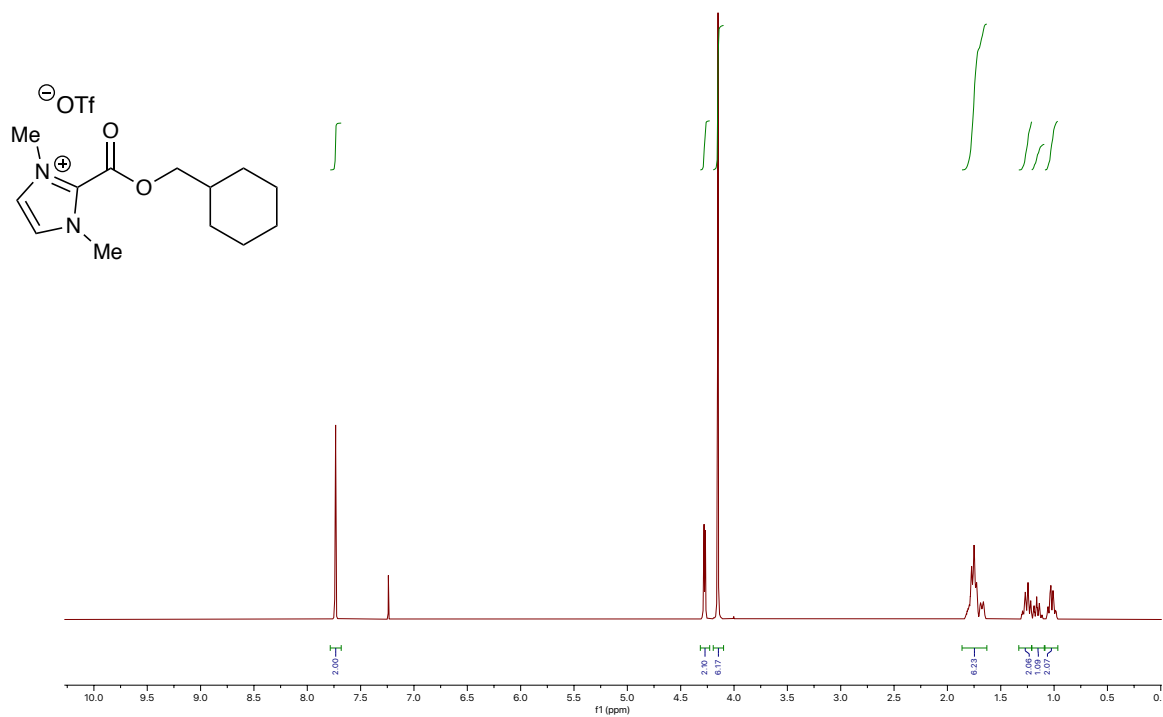


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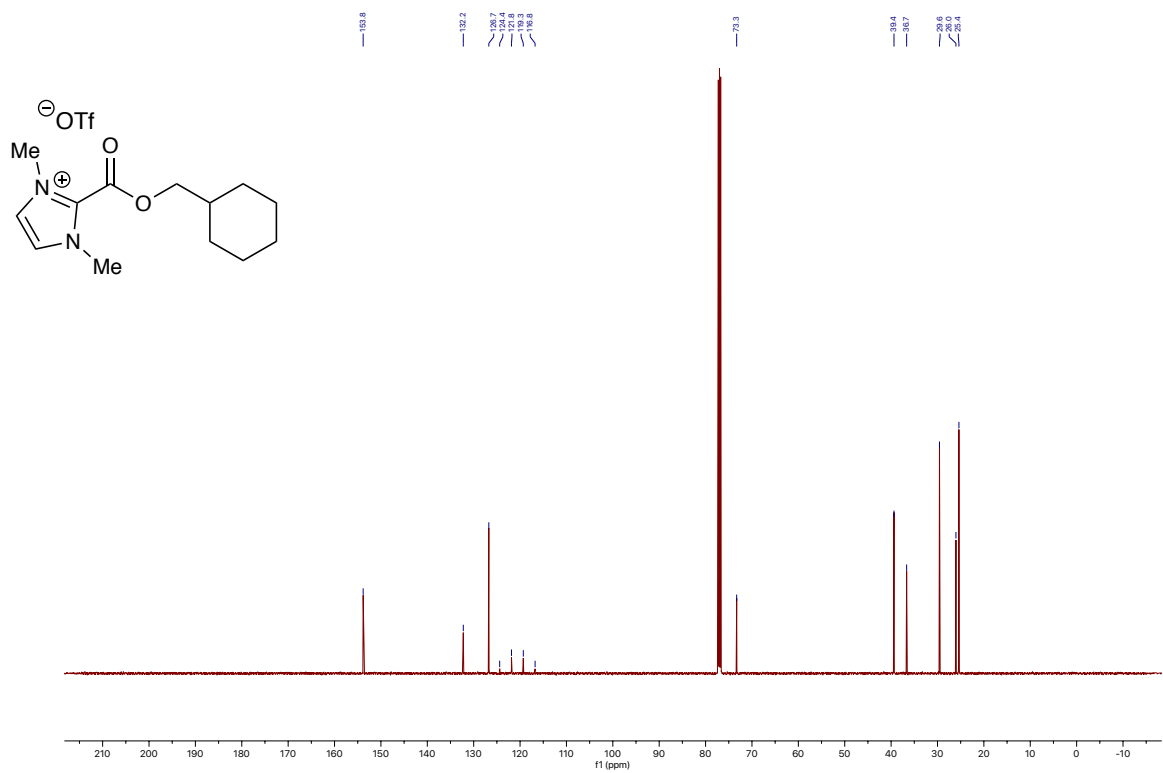


Supporting Information

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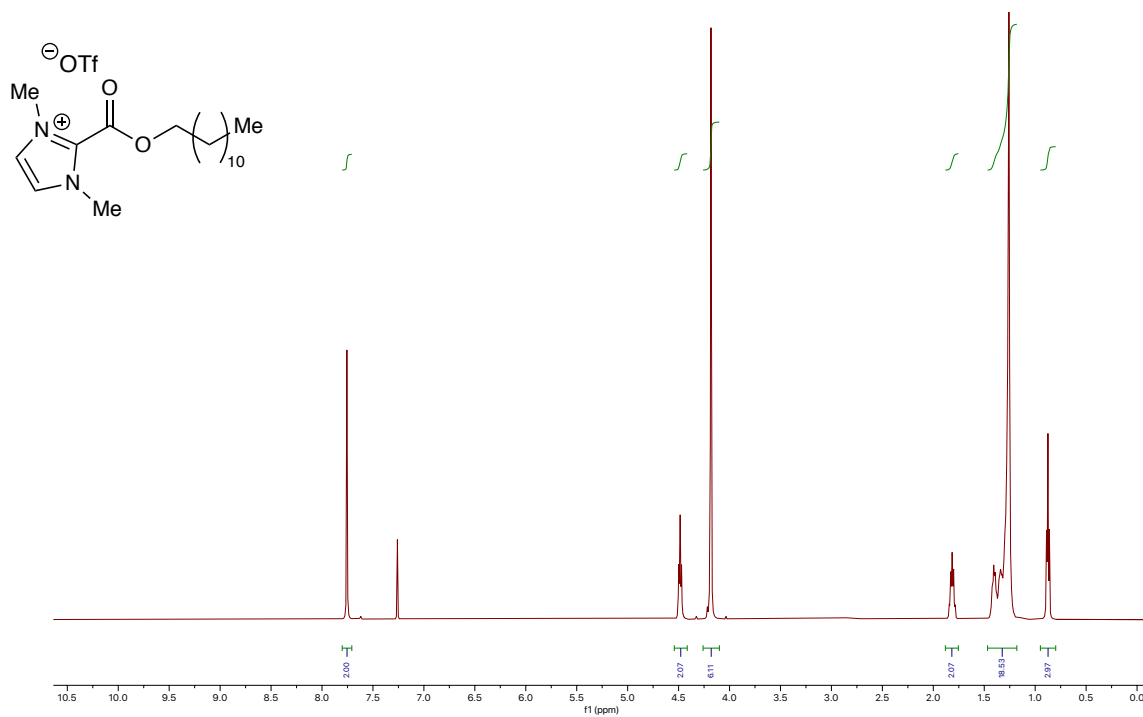


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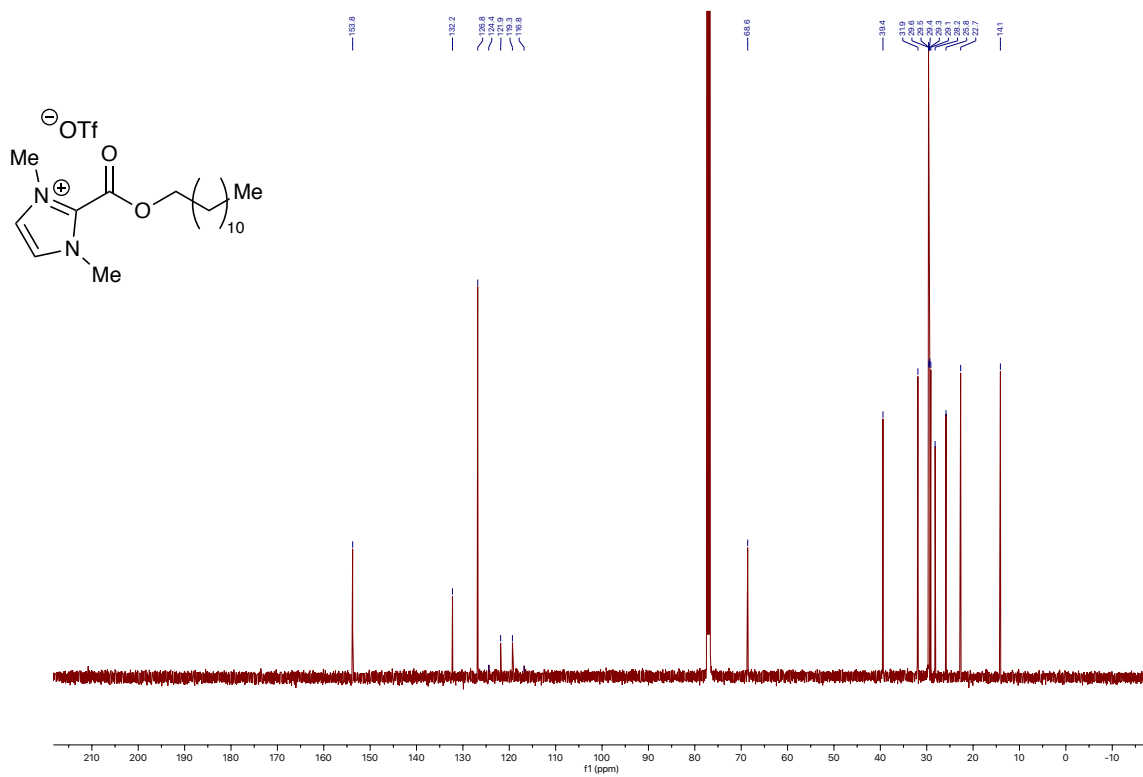


Supporting Information

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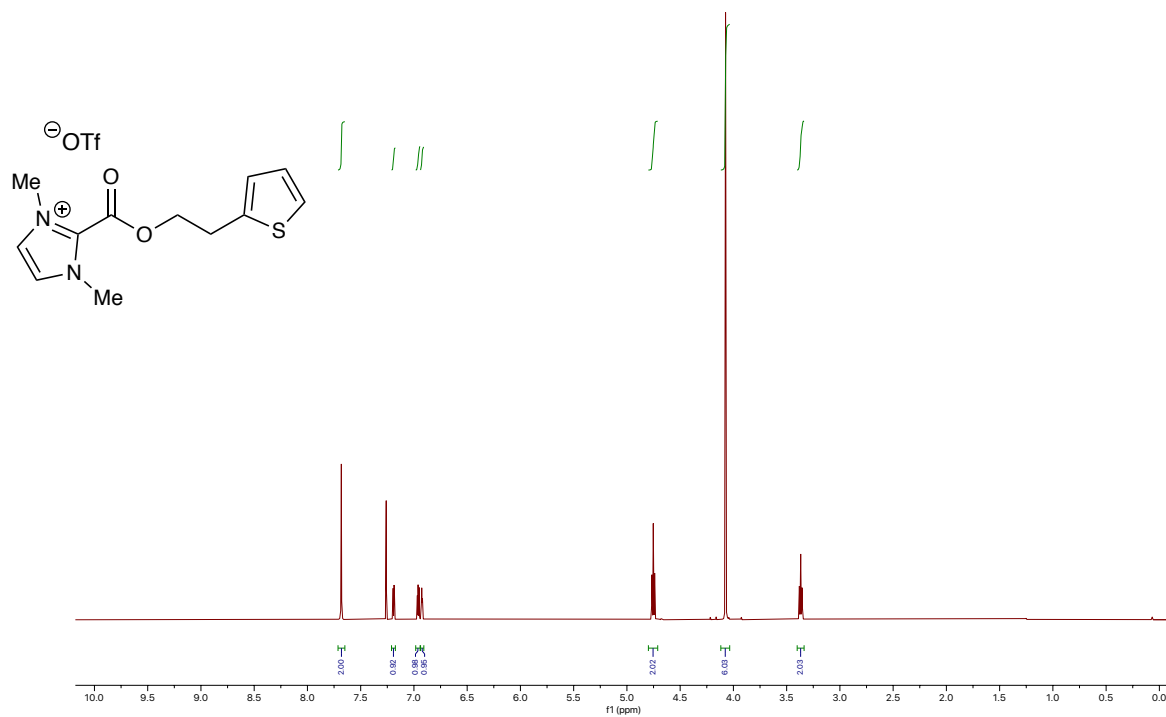


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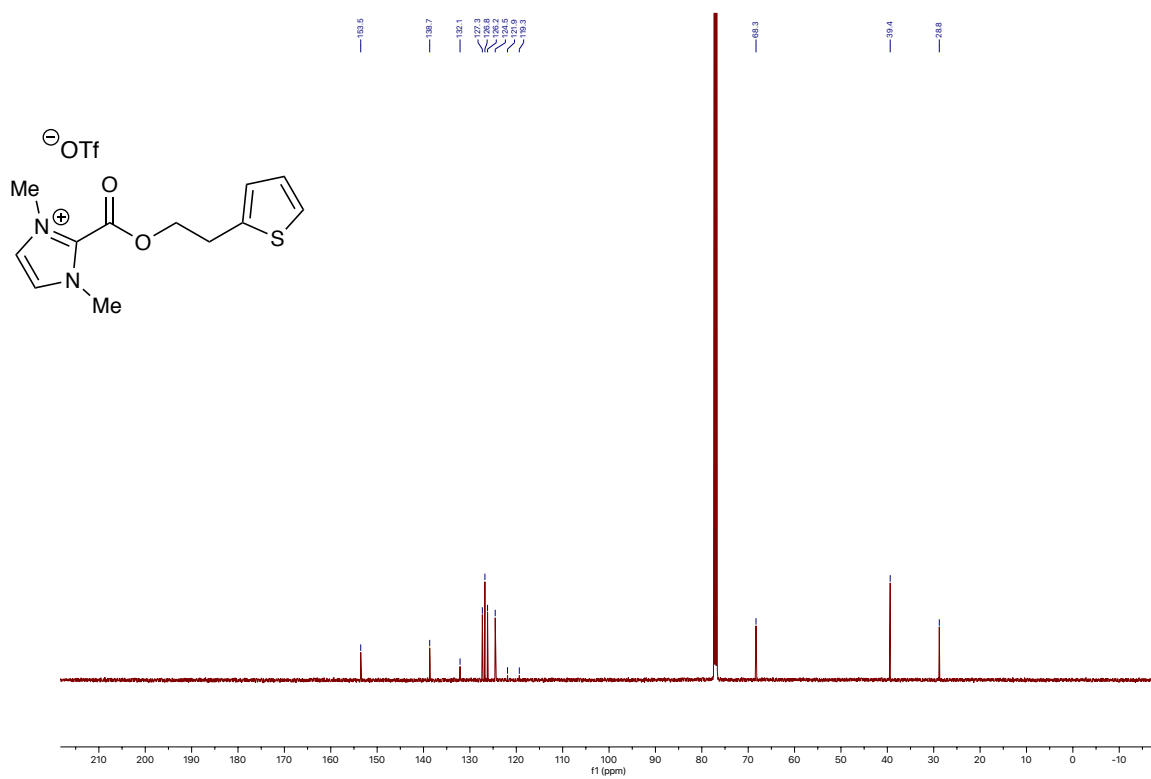


Supporting Information

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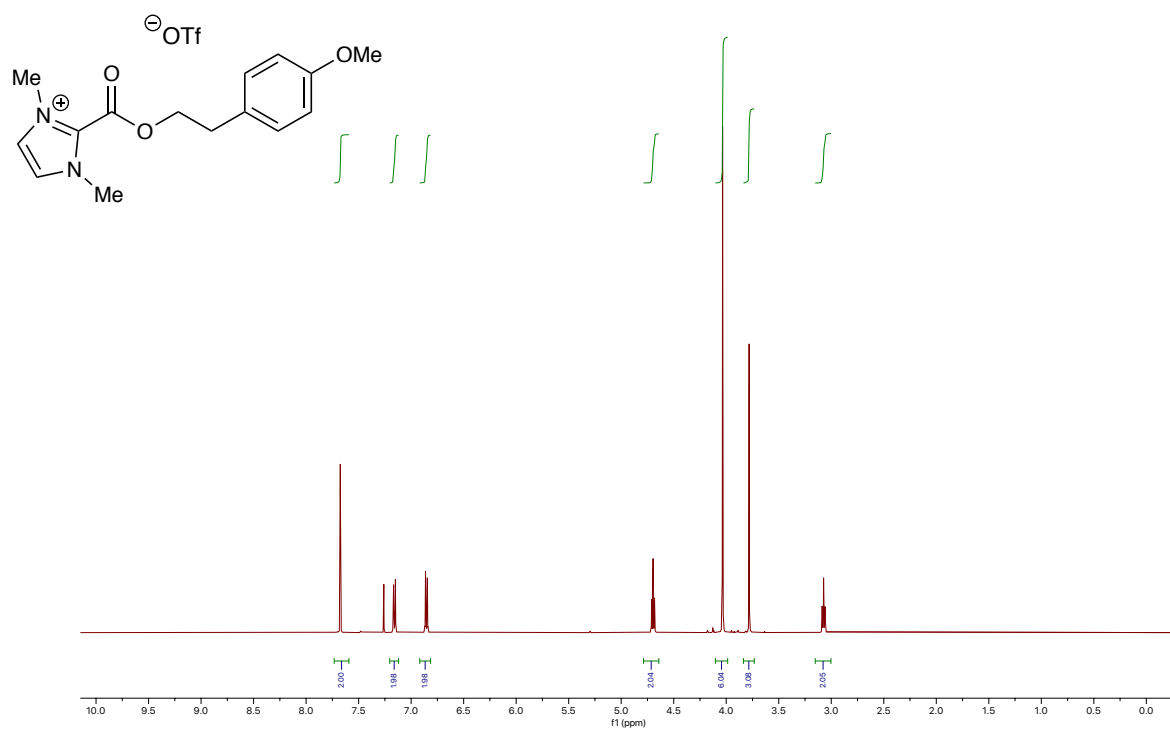


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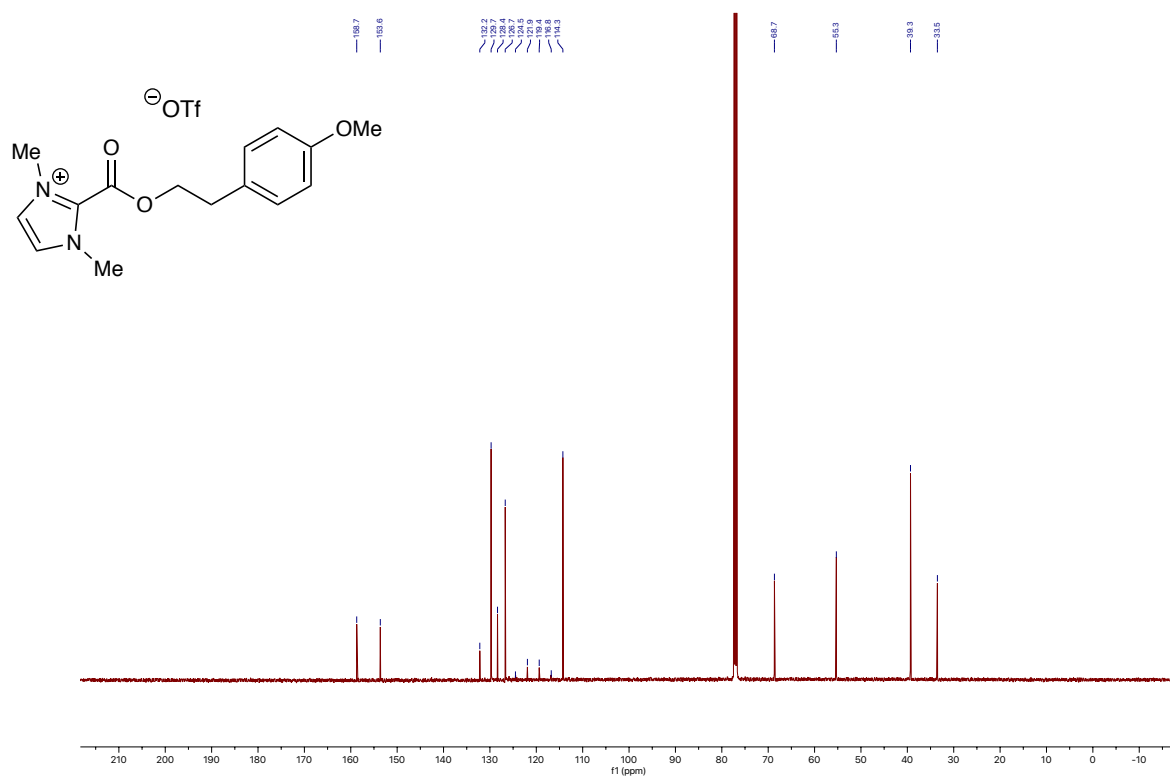


Supporting Information

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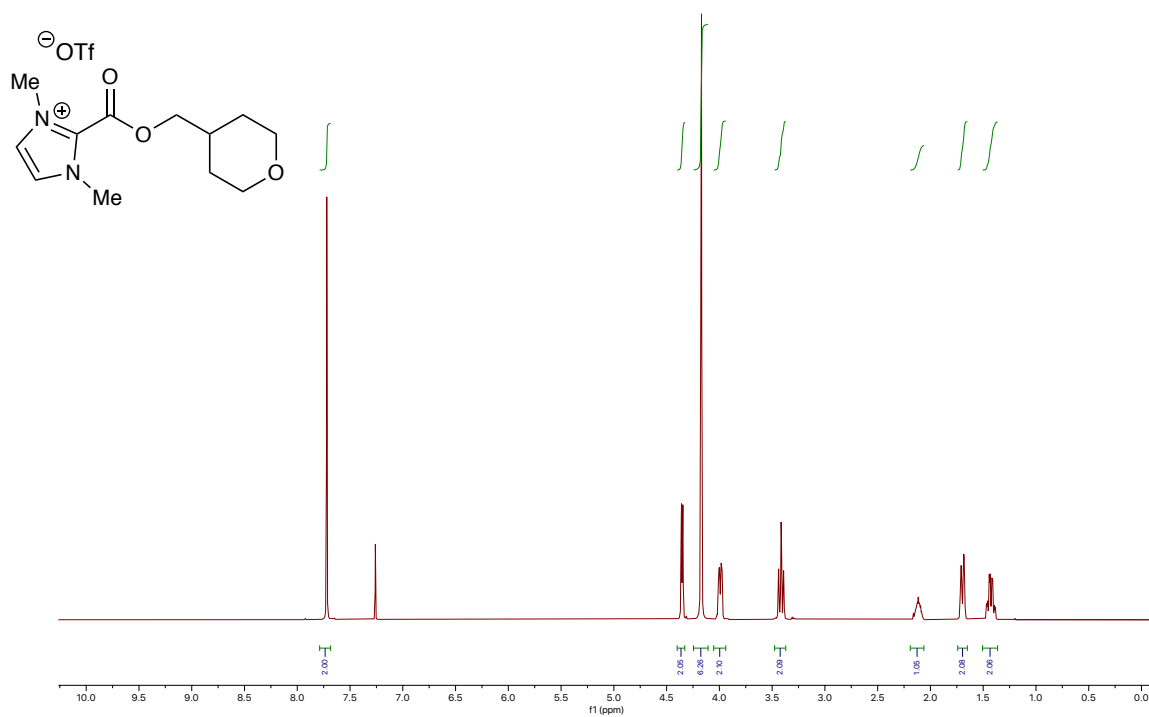


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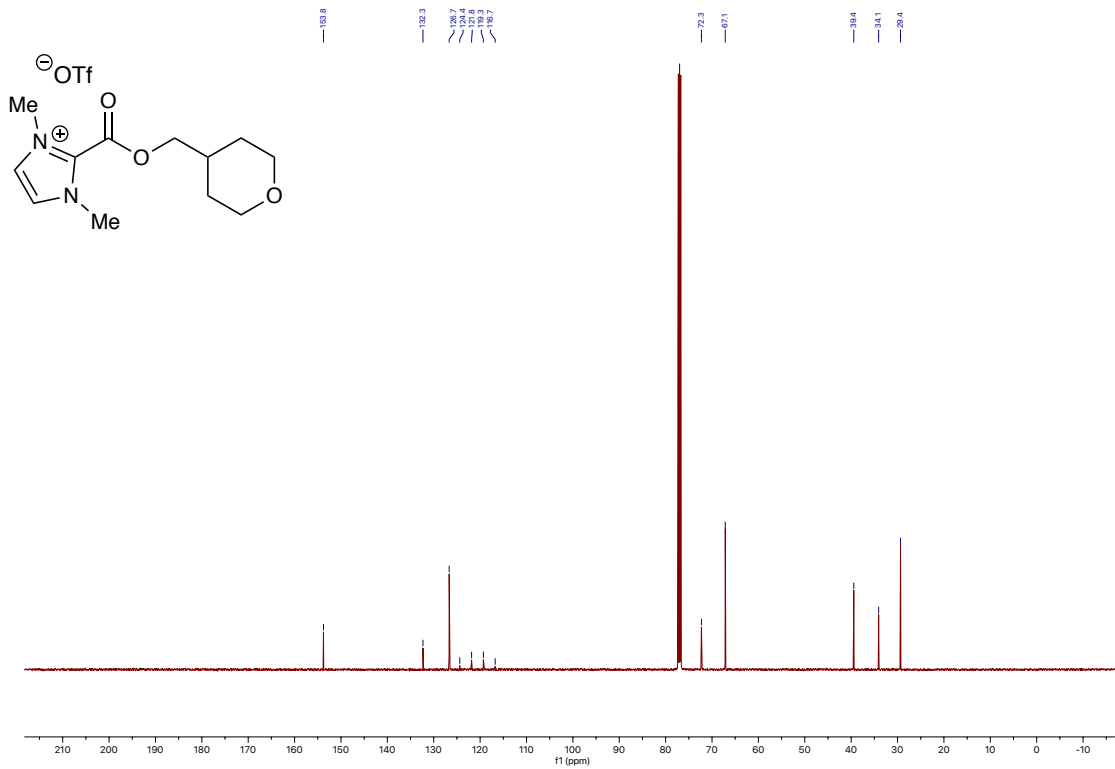


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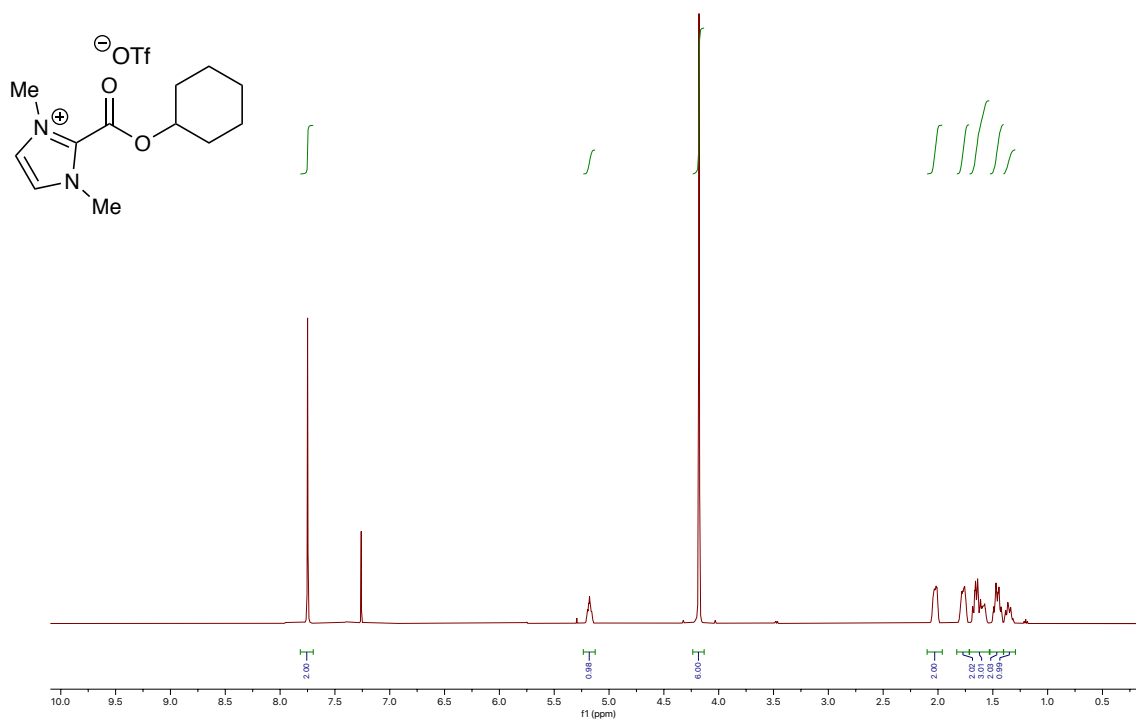


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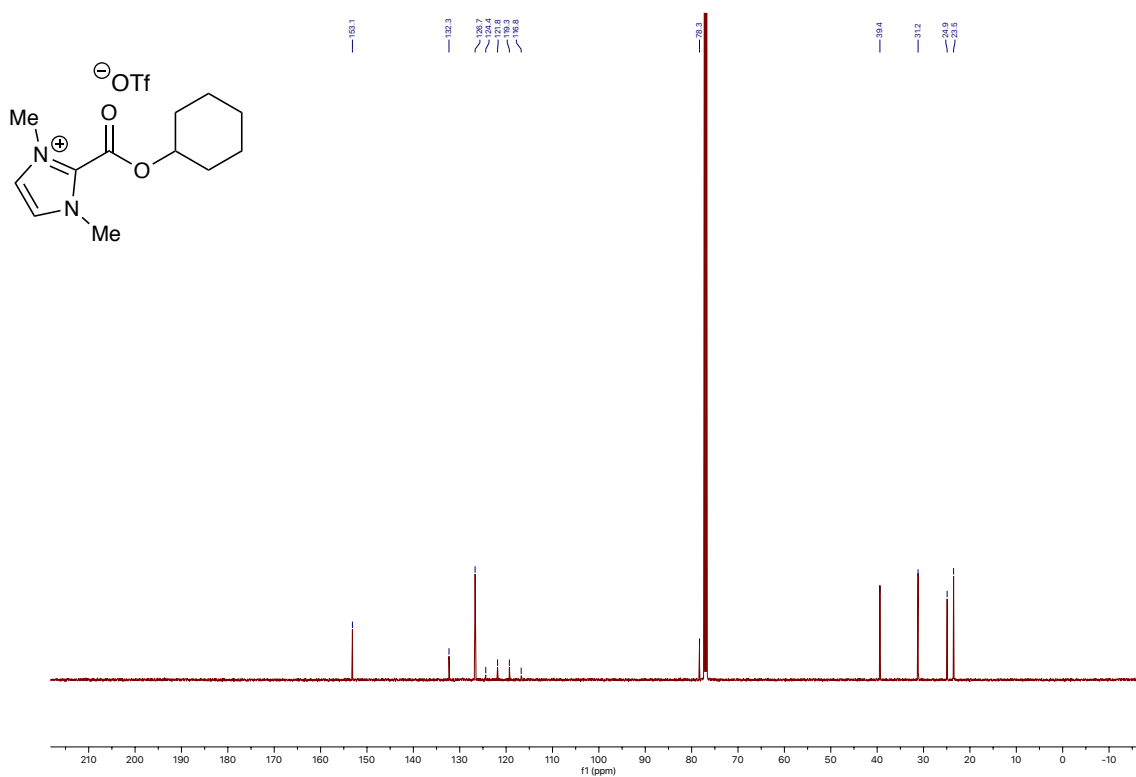


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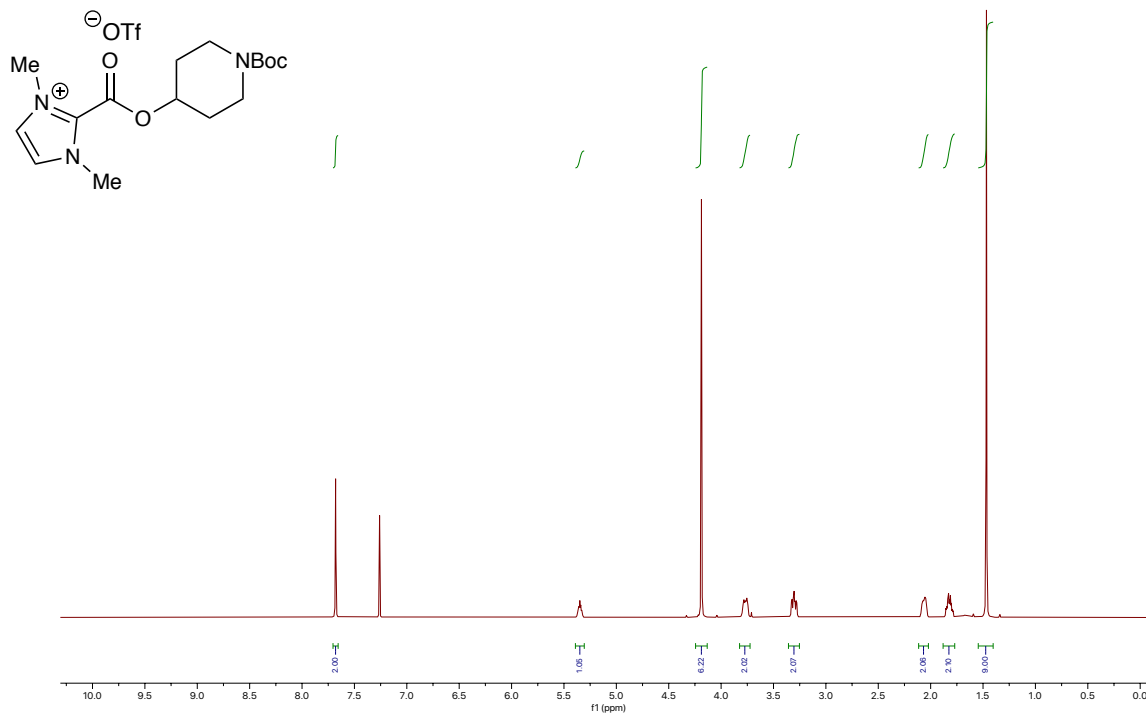


^{13}C NMR of **1h**

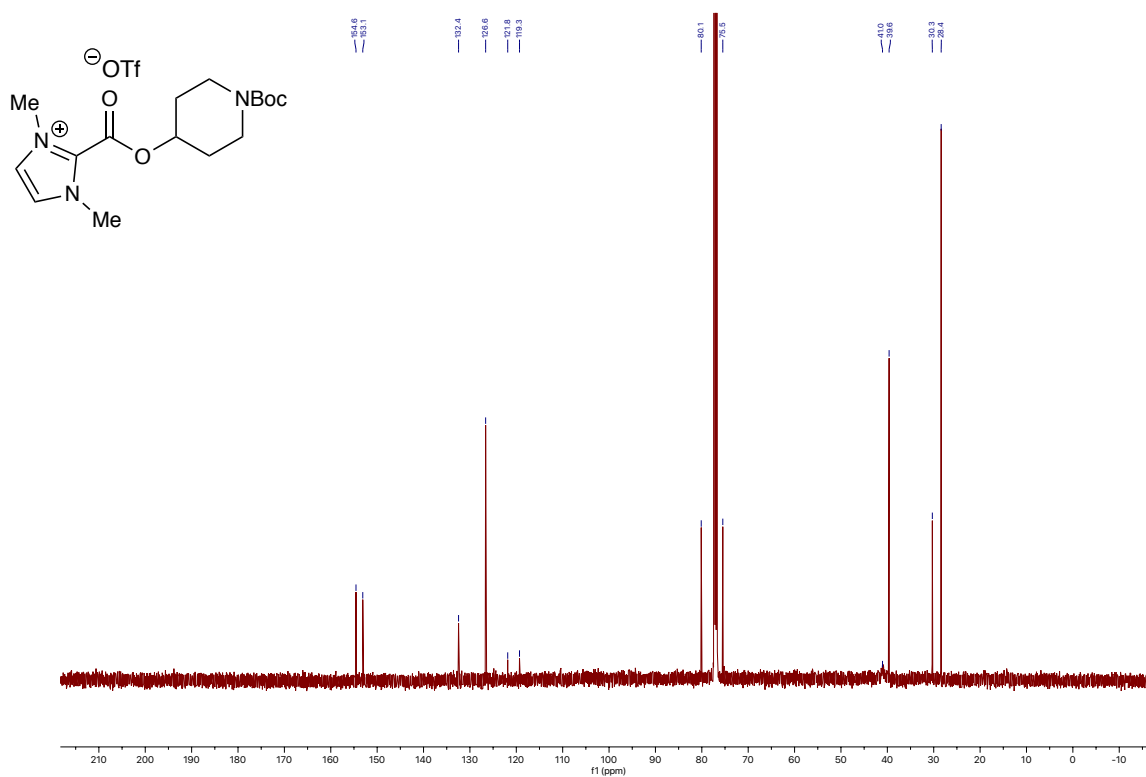


Supporting Information

^1H NMR of **1i**

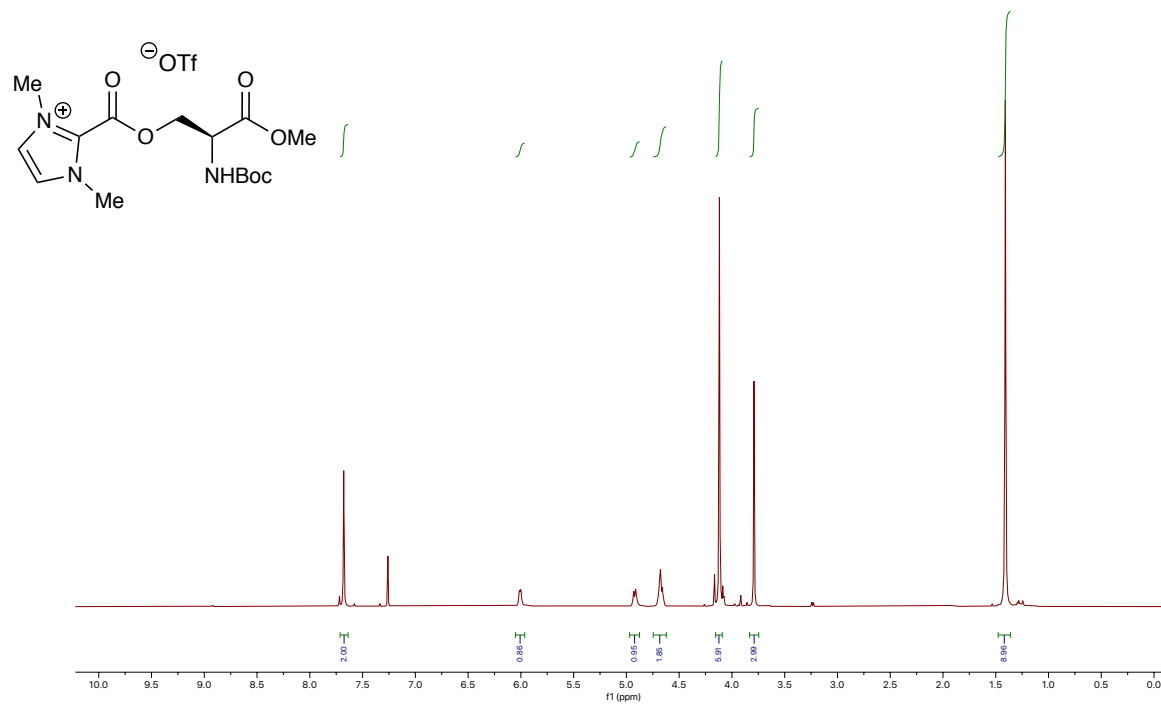


^{13}C NMR of **1i**

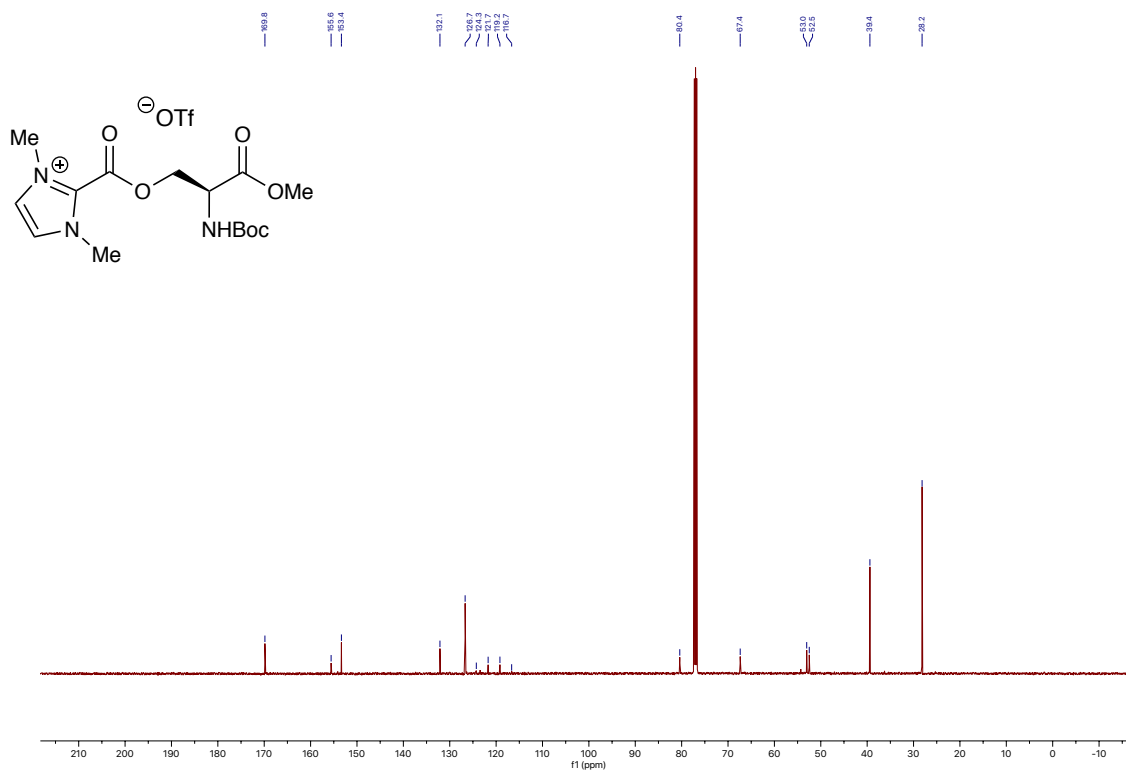


Supporting Information

¹H NMR of **1j**

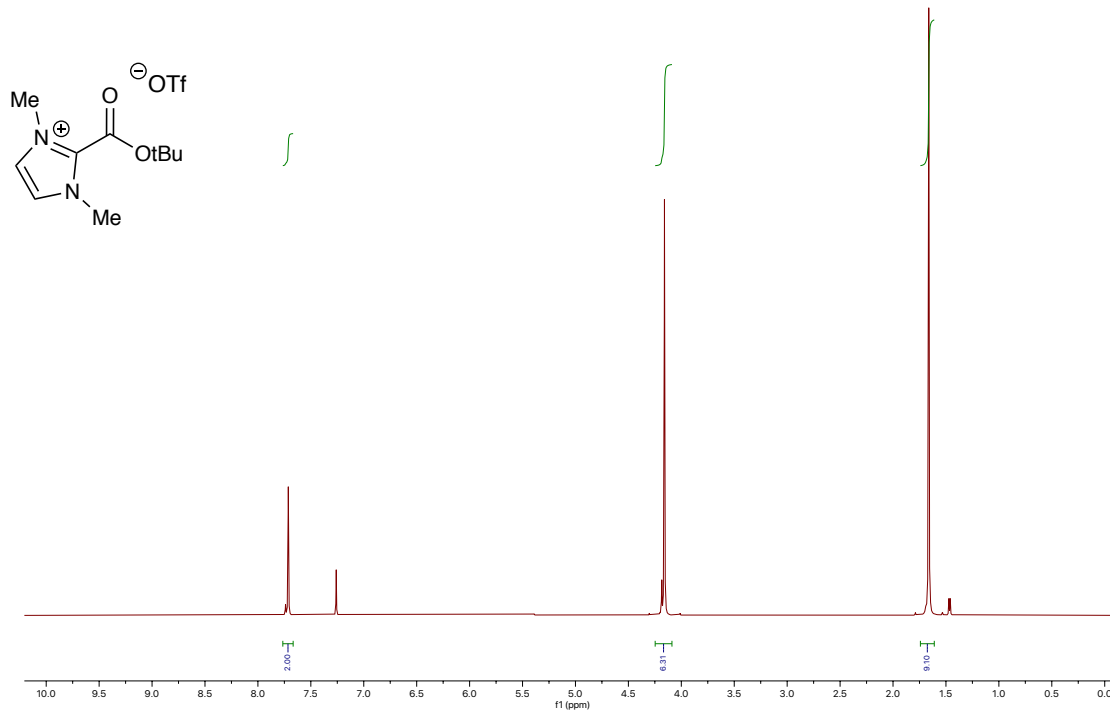


¹³C NMR of **1j**

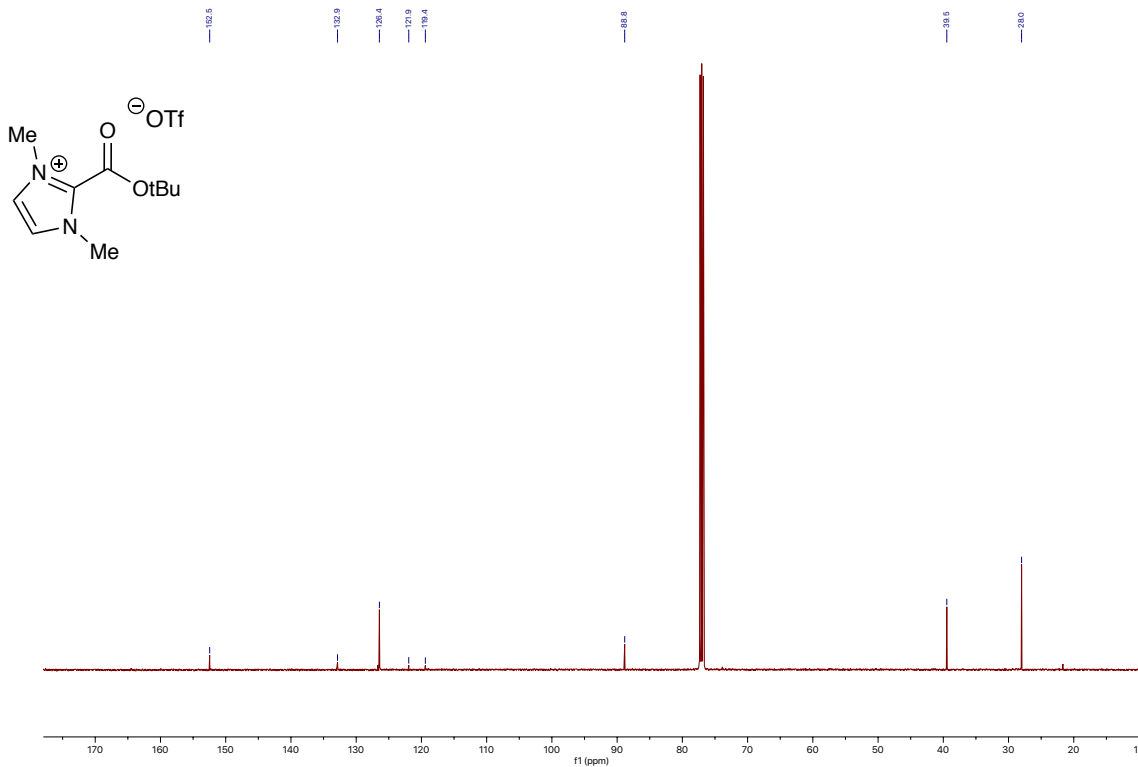


Supporting Information

^1H NMR of **1k**

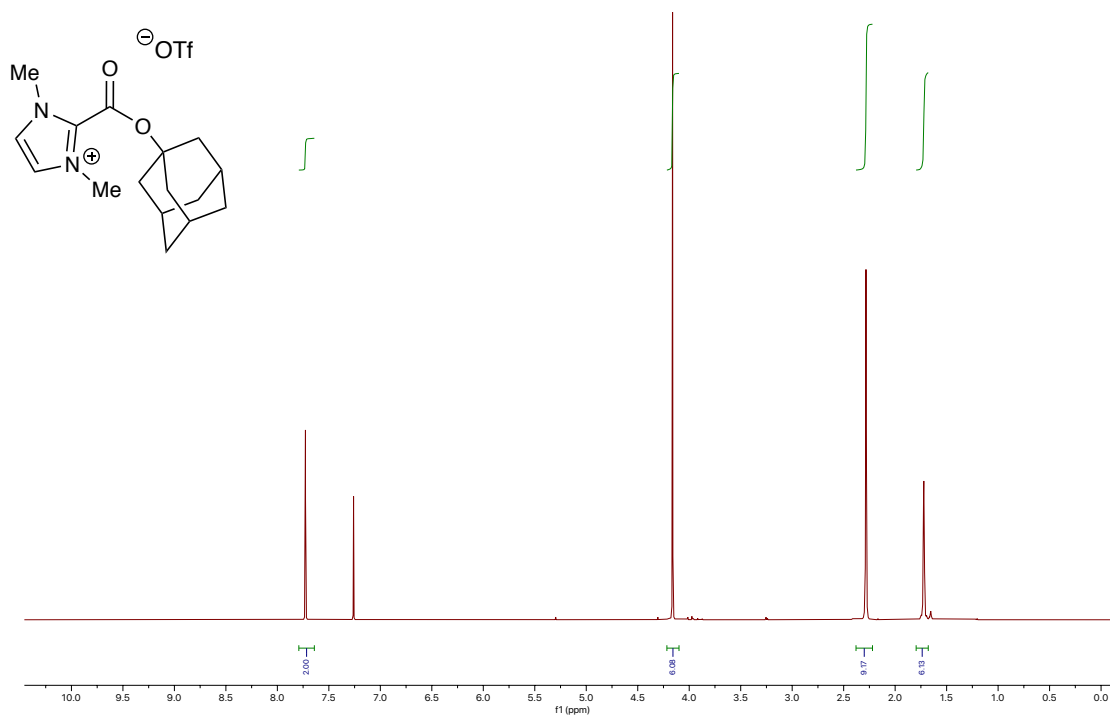


^{13}C NMR of **1k**

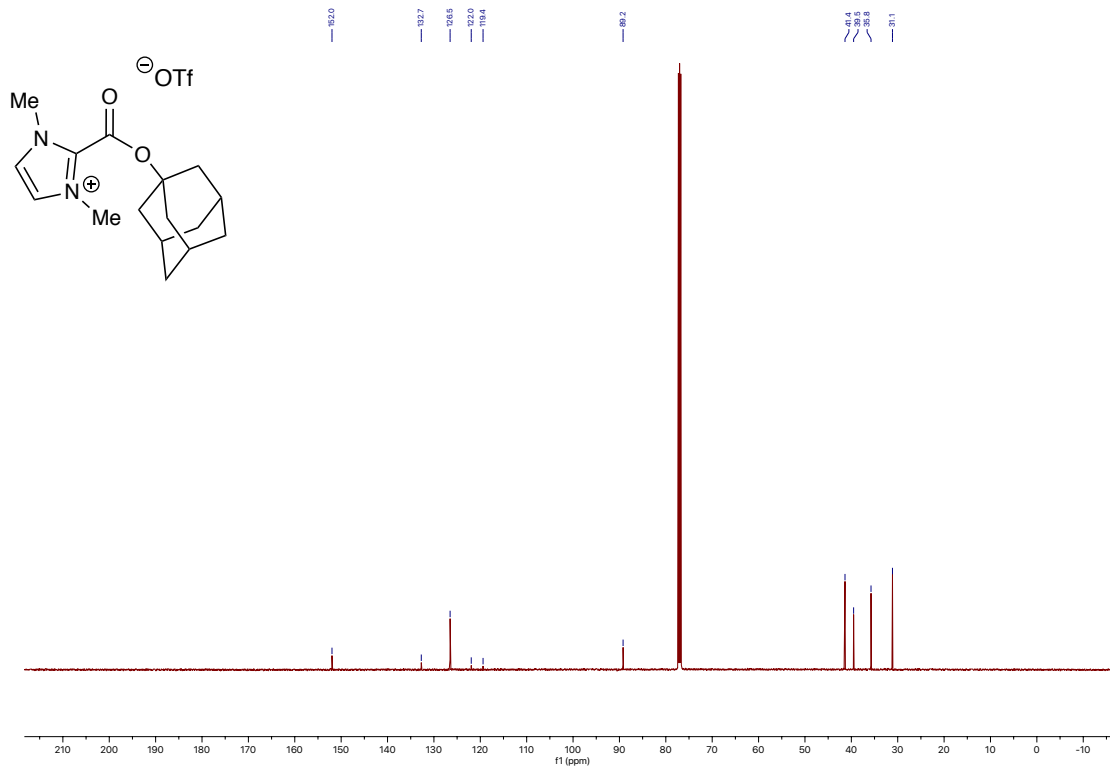


Supporting Information

^1H NMR of **11**

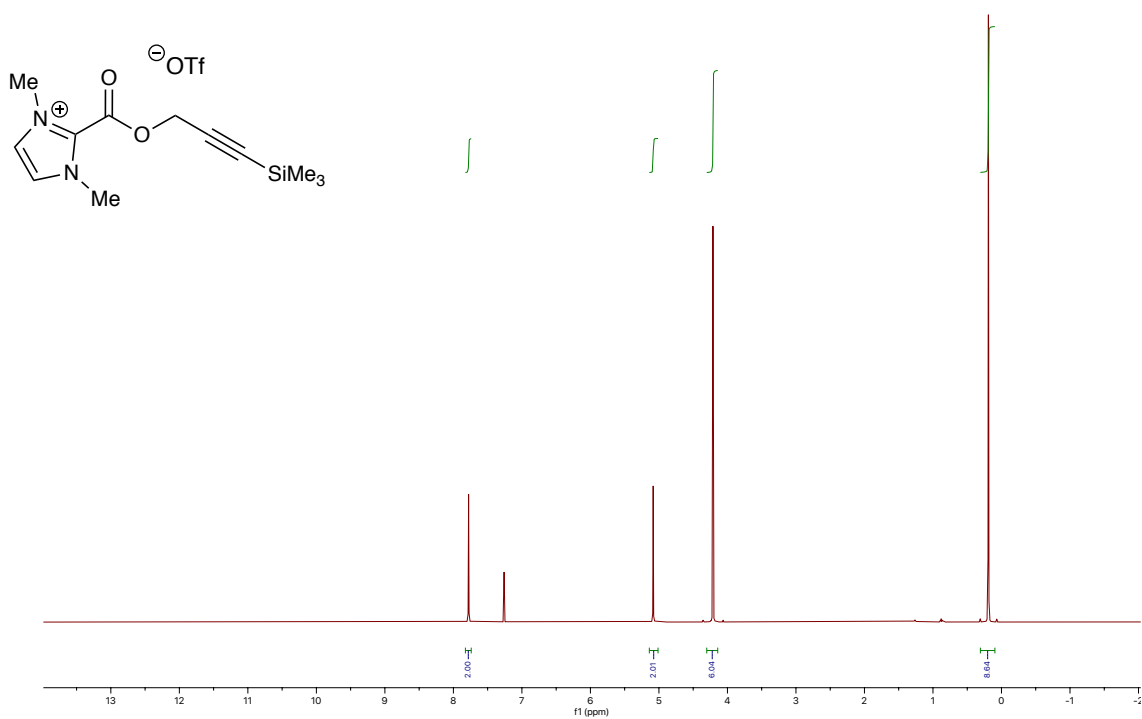


^{13}C NMR of **11**

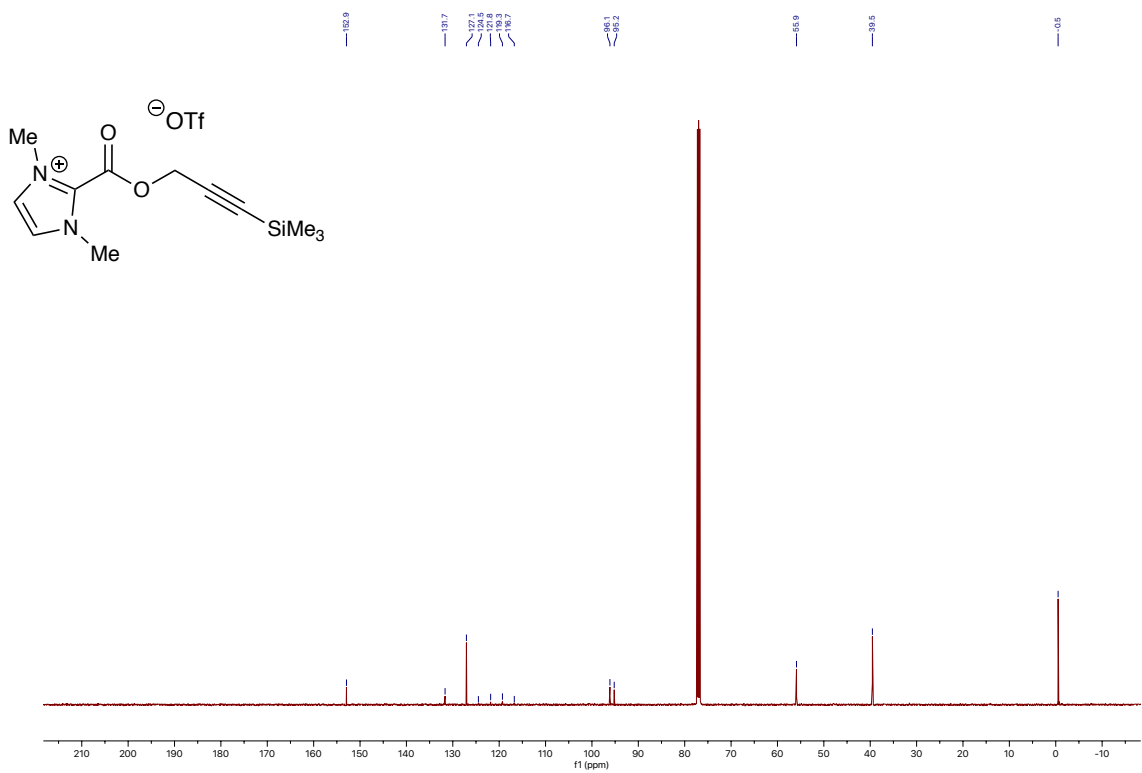


Supporting Information

^1H NMR of **1m**

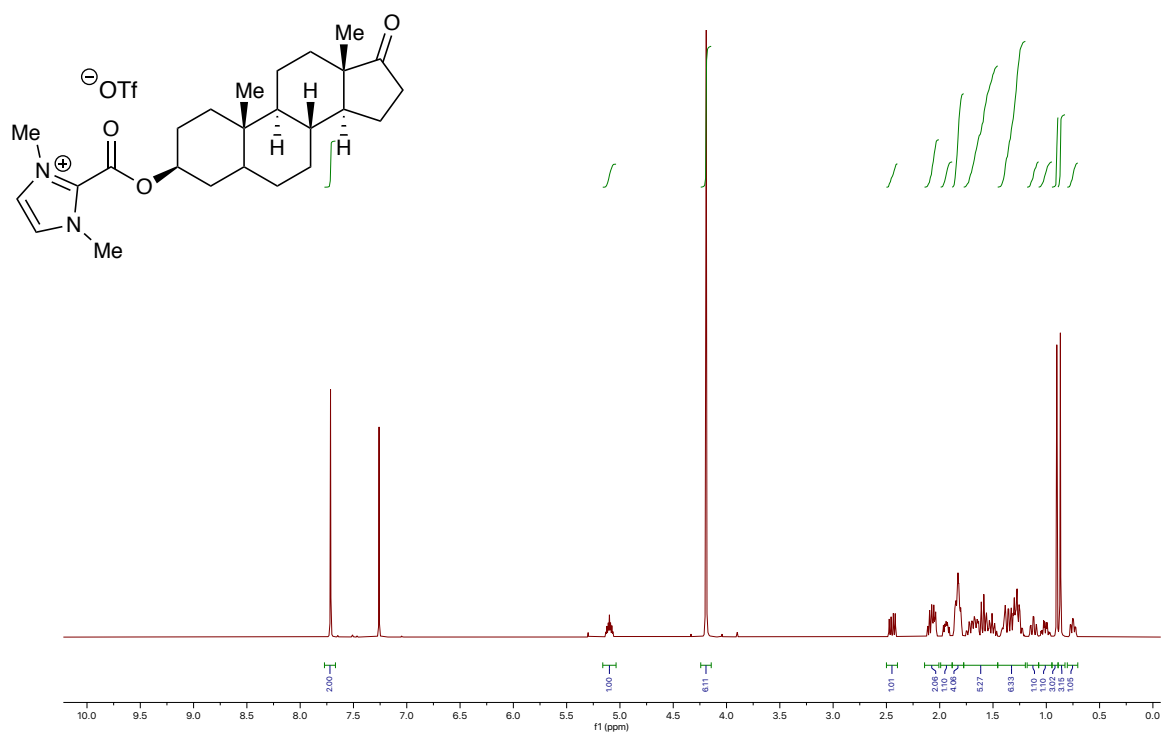


^{13}C NMR of **1m**

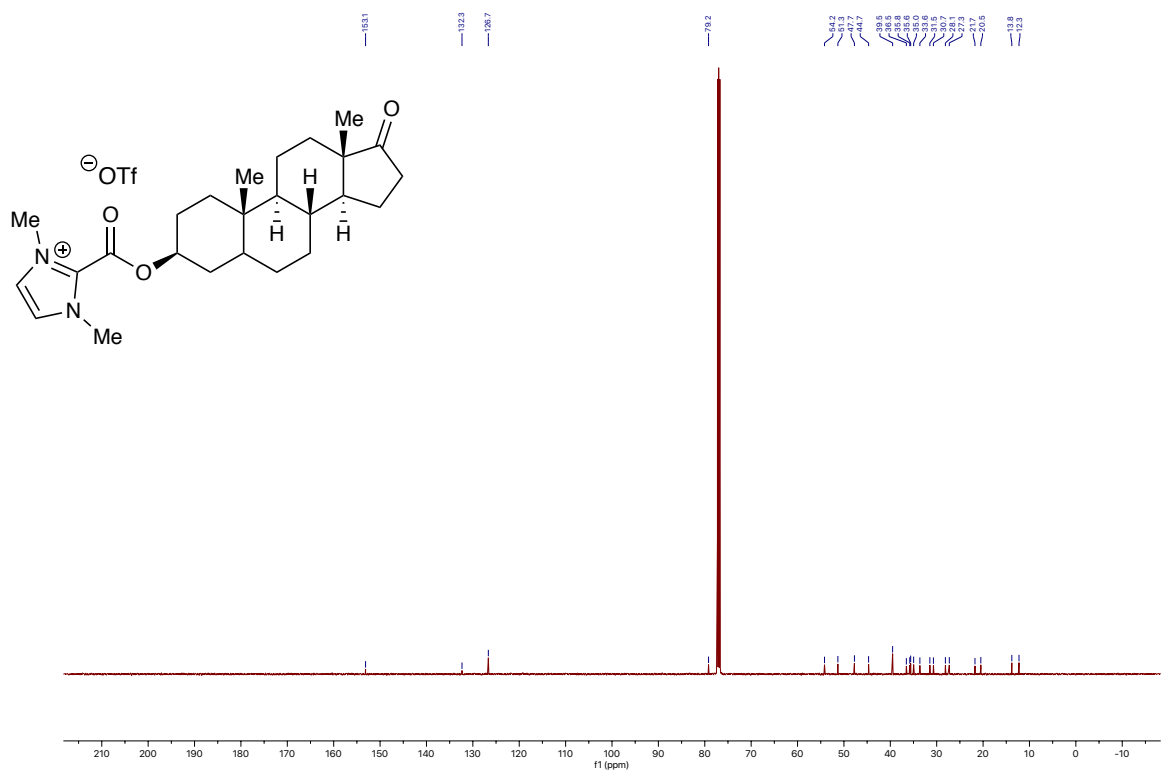


Supporting Information

^1H NMR of **1n**

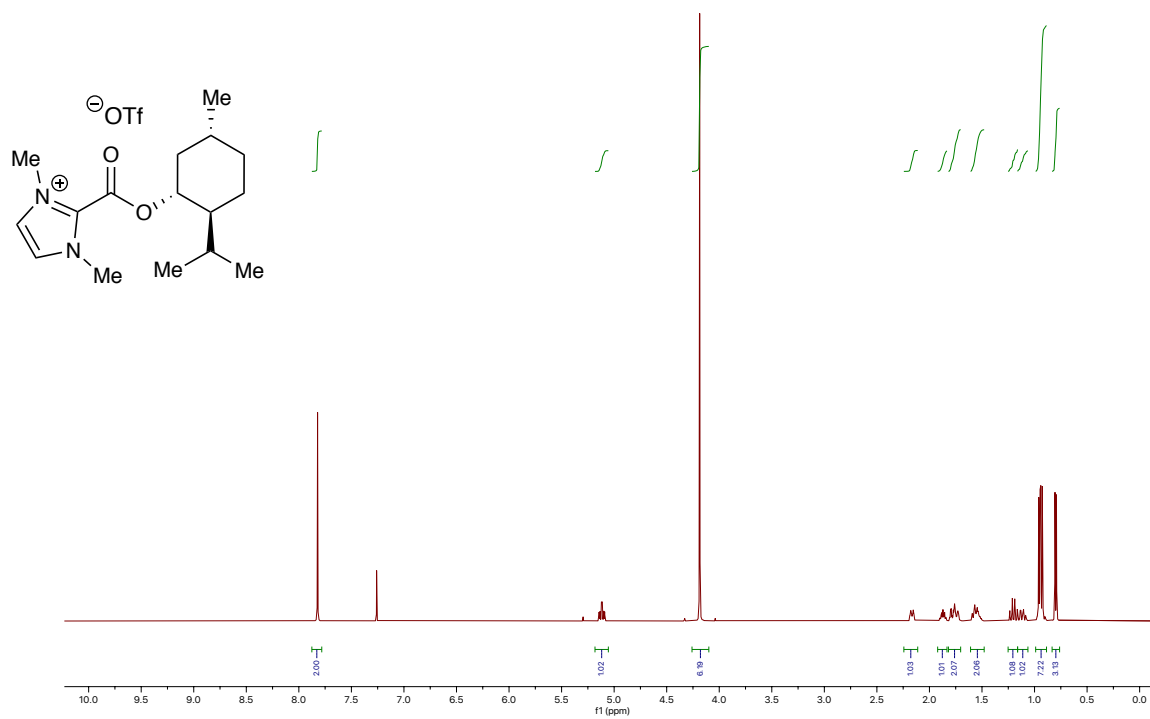


^{13}C NMR of **1n**

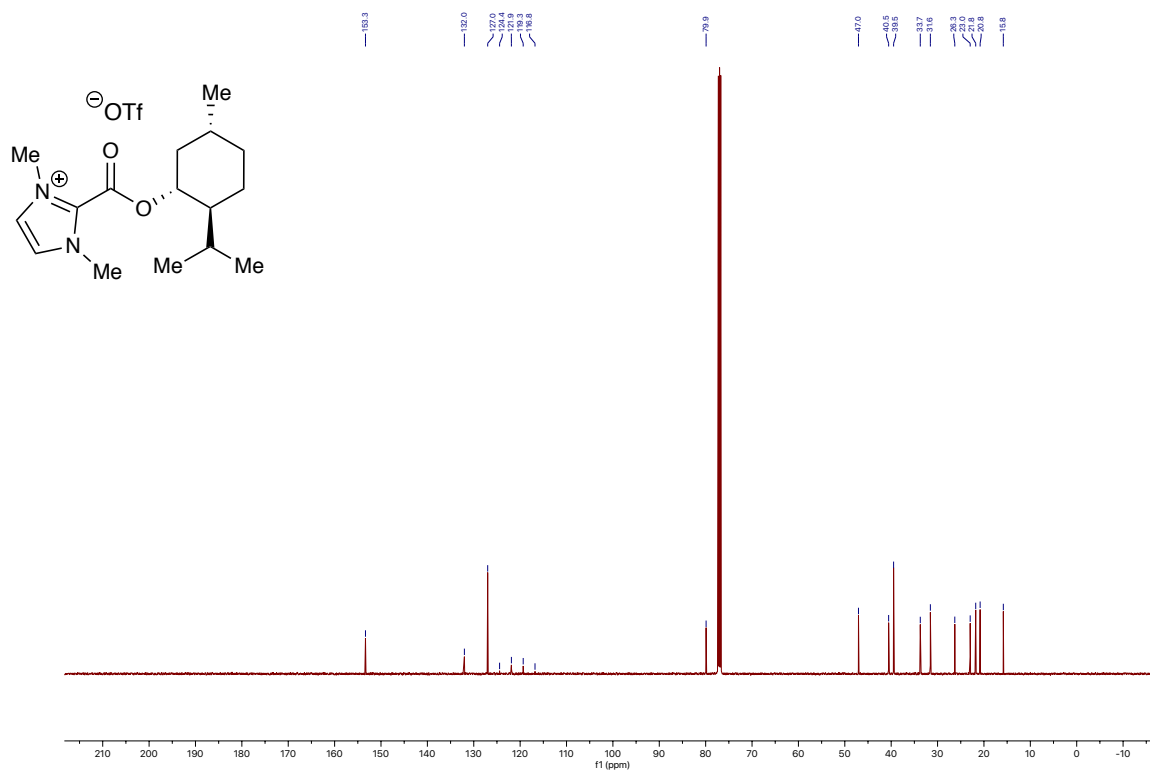


Supporting Information

^1H NMR of **1o**

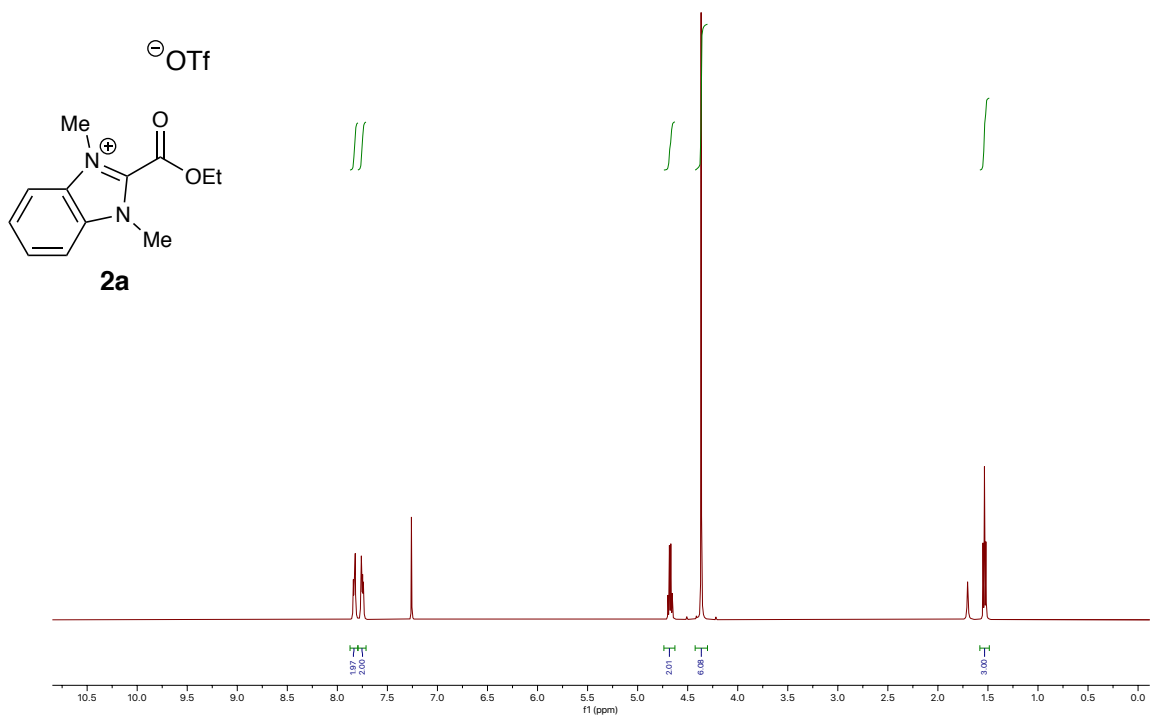


^{13}C NMR of **1o**

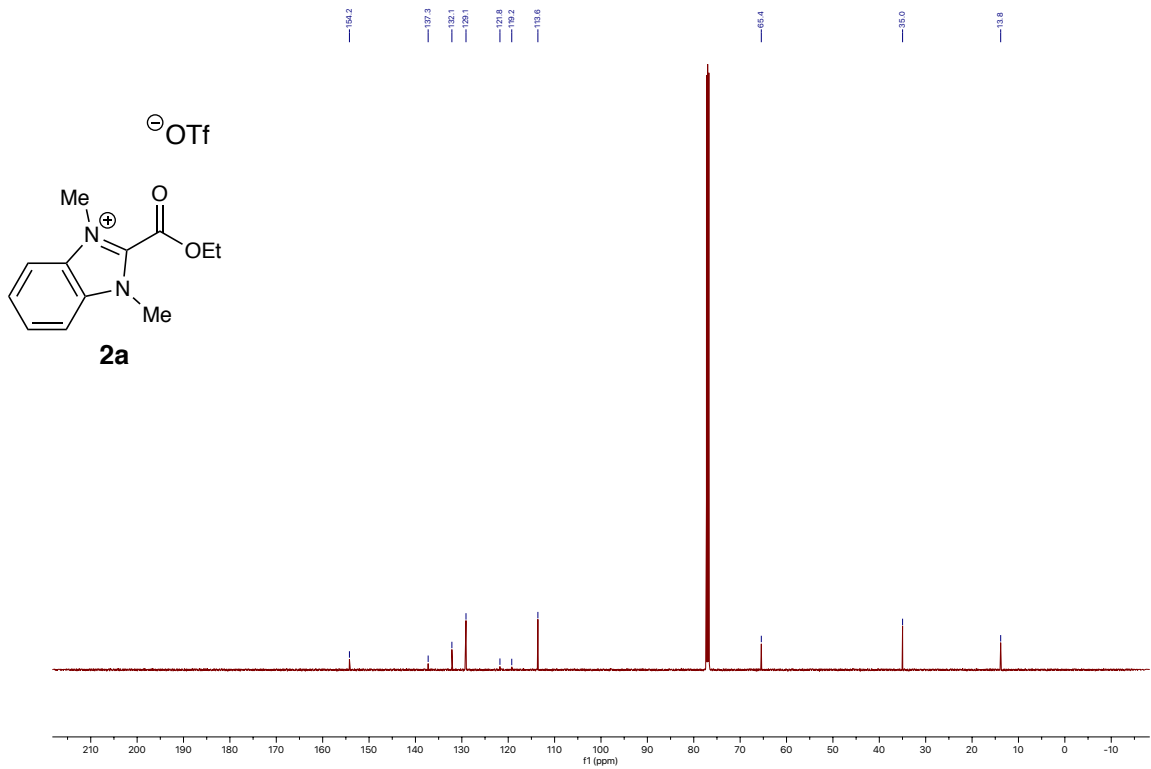


Supporting Information

^1H NMR of **2a**

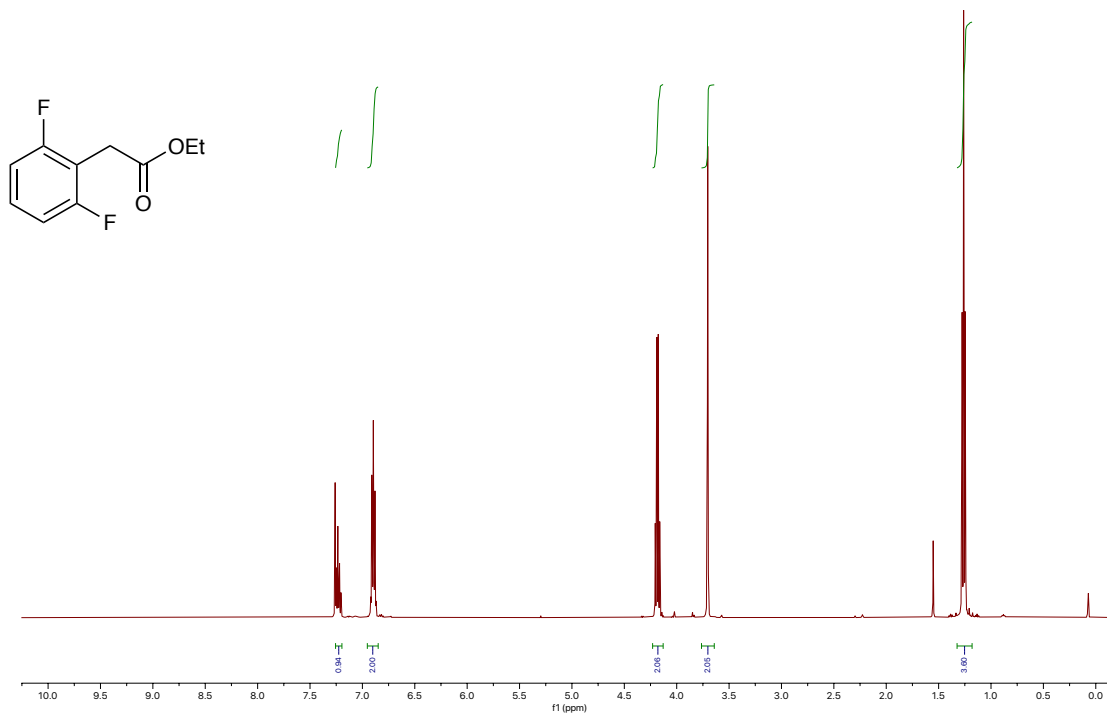


^{13}C NMR of **2a**

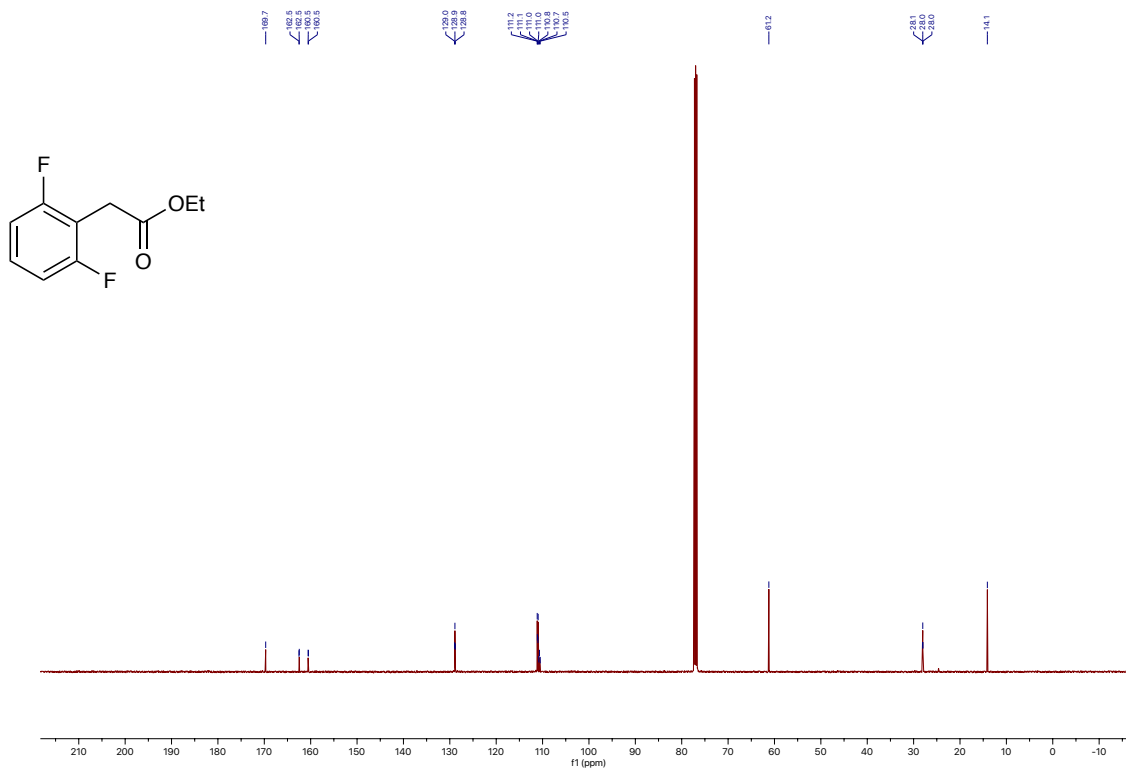


Supporting Information

^1H NMR of **4k**

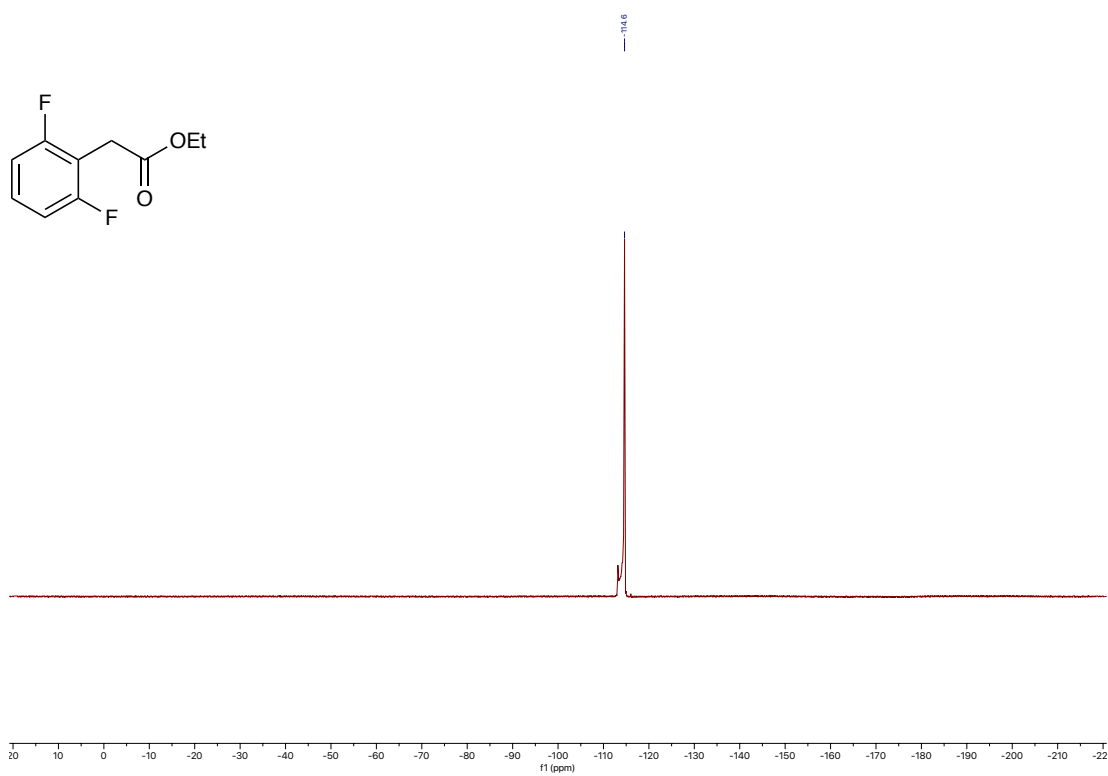


^{13}C NMR of **4k**



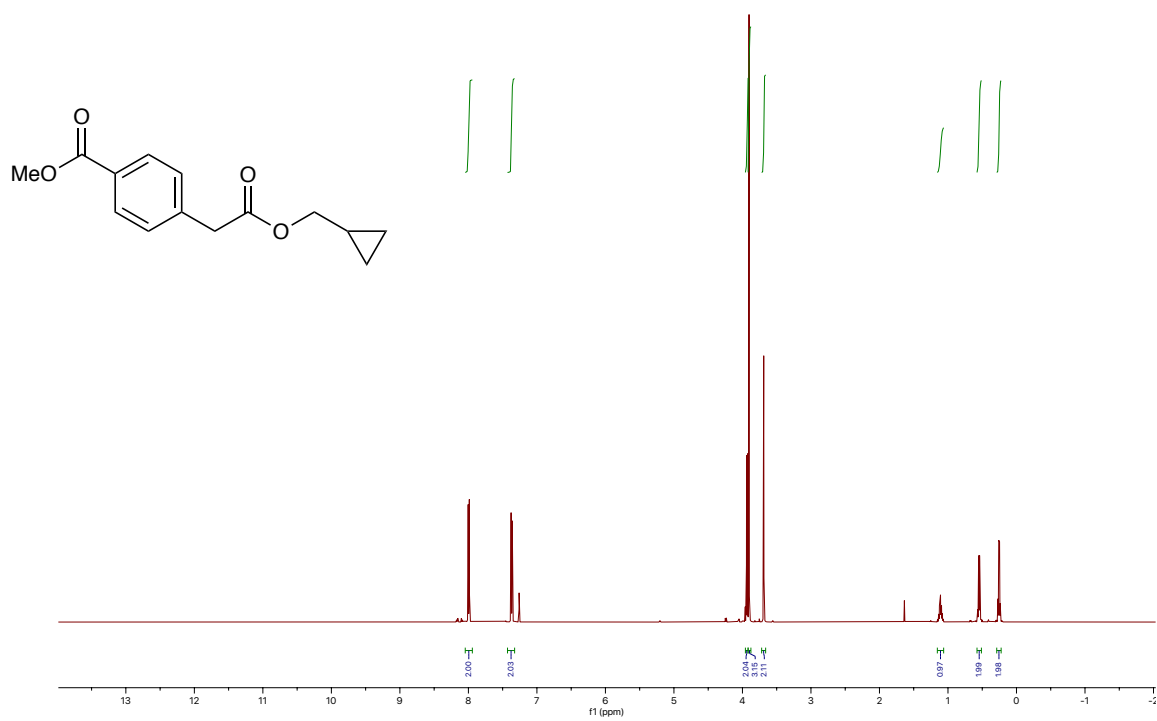
Supporting Information

^{19}F NMR of **4k**

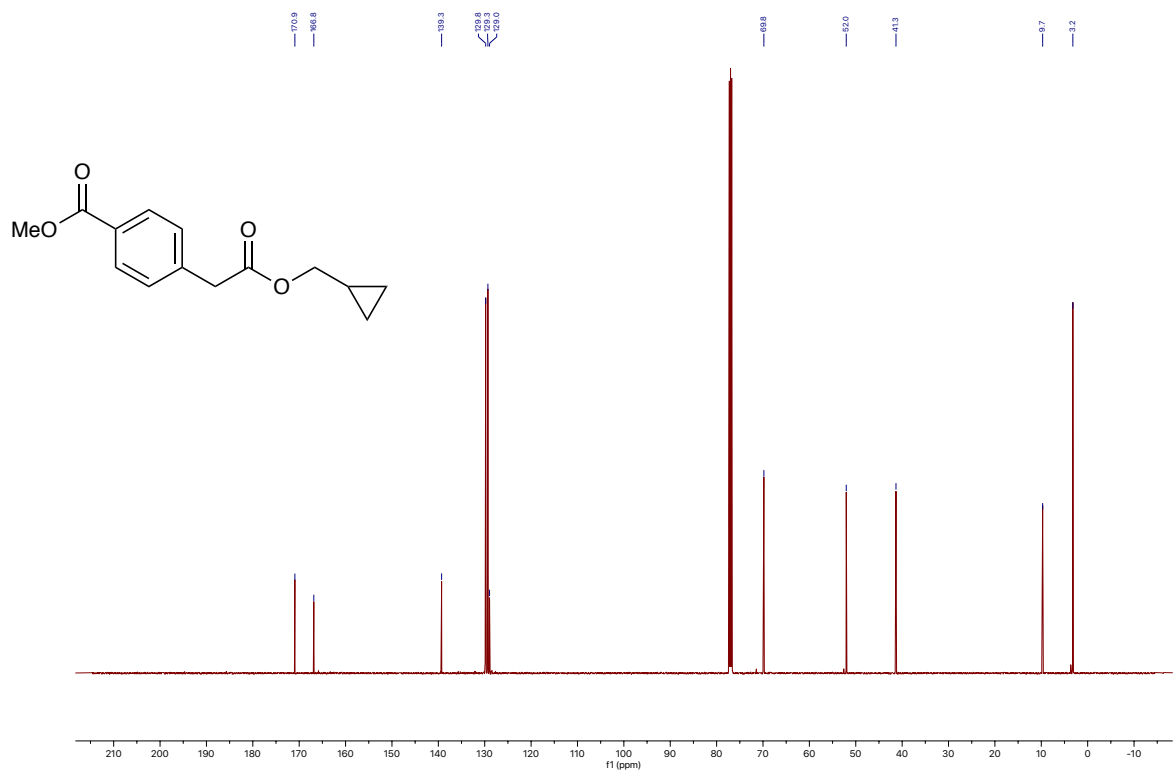


Supporting Information

^1H NMR of **4o**

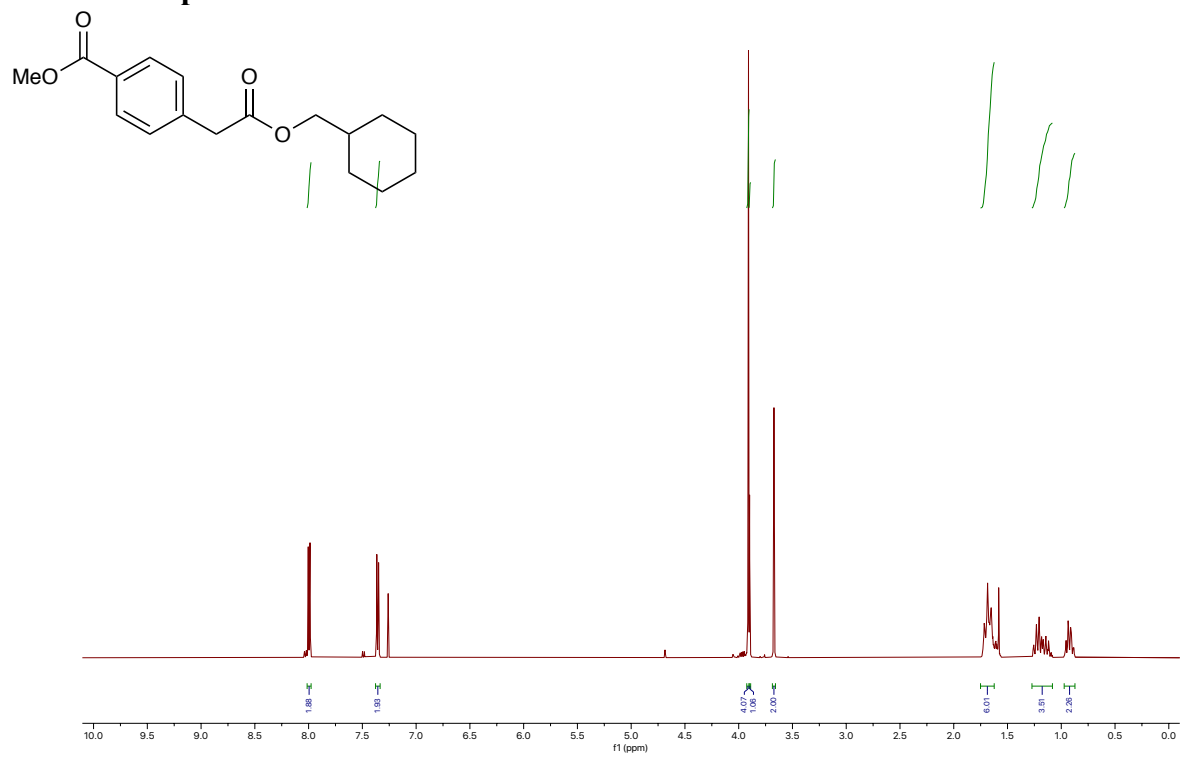


^{13}C NMR of **4o**

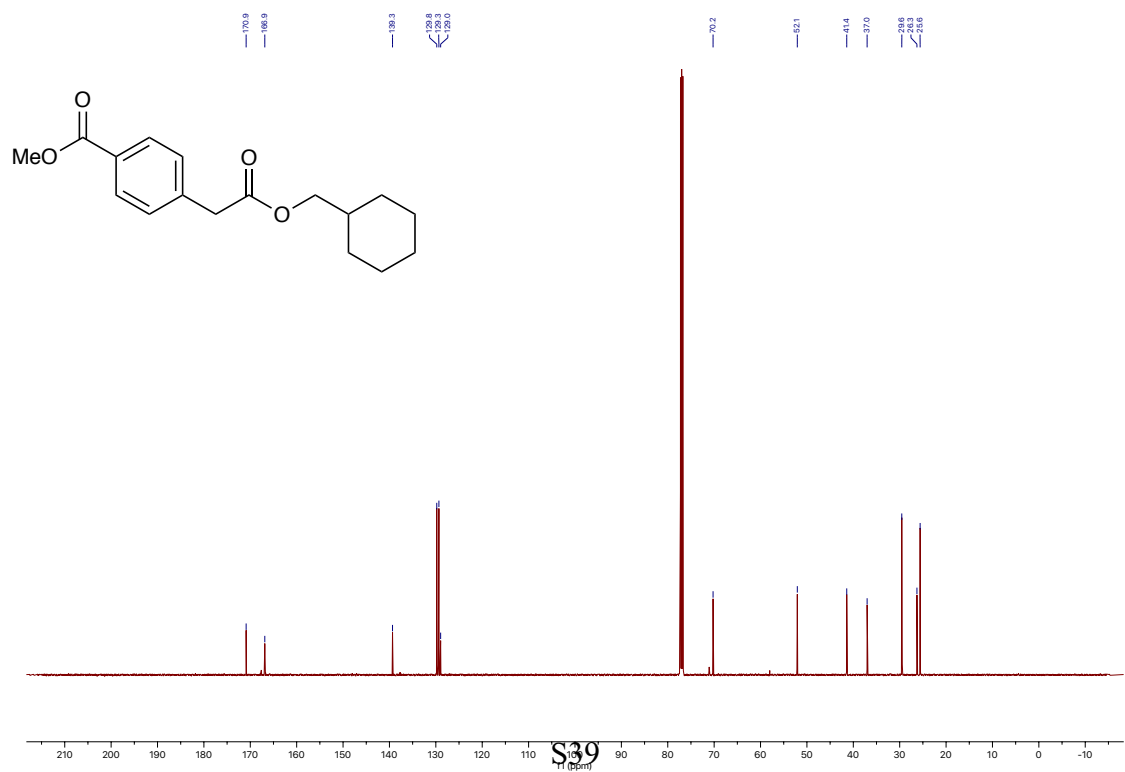


Supporting Information

^1H NMR of **4p**

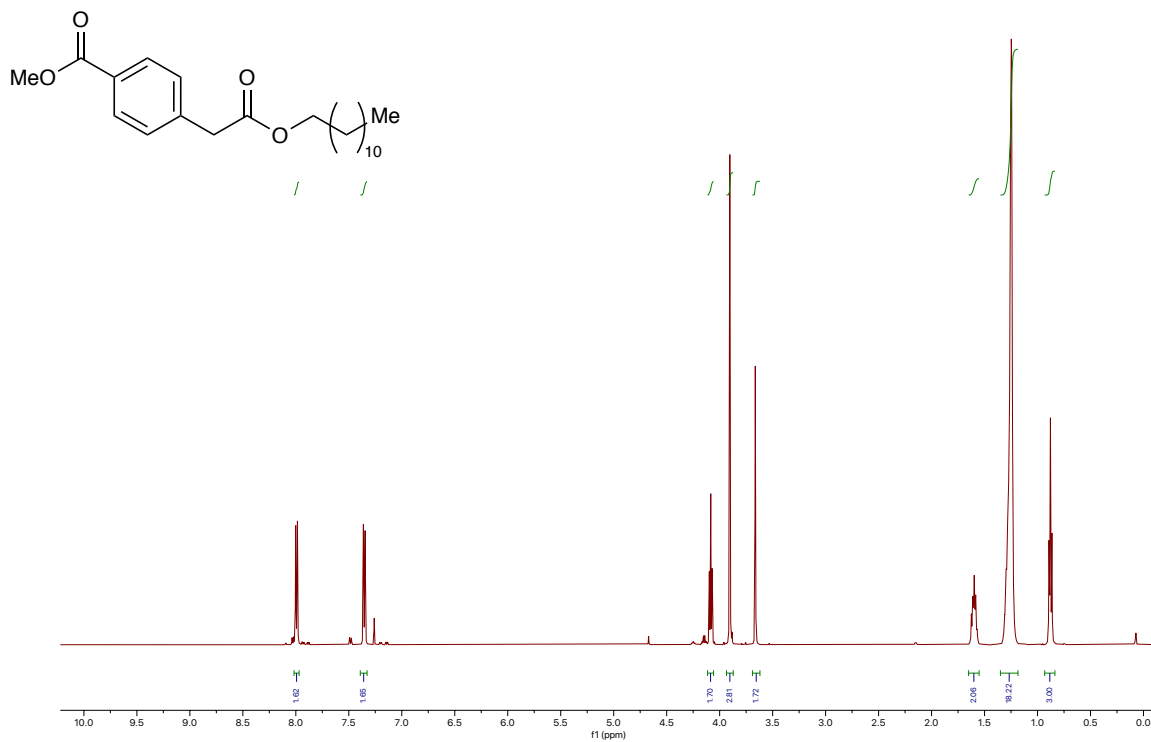


^{13}C NMR of **4p**

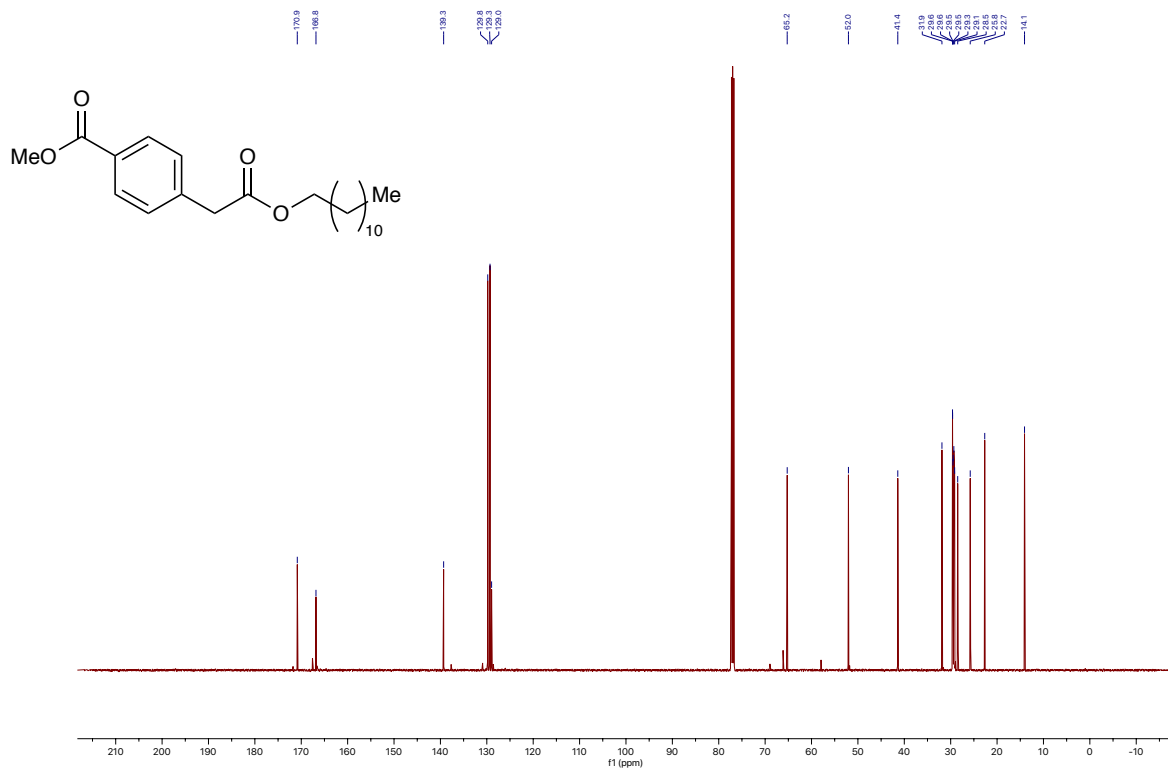


Supporting Information

¹H NMR of **4q**

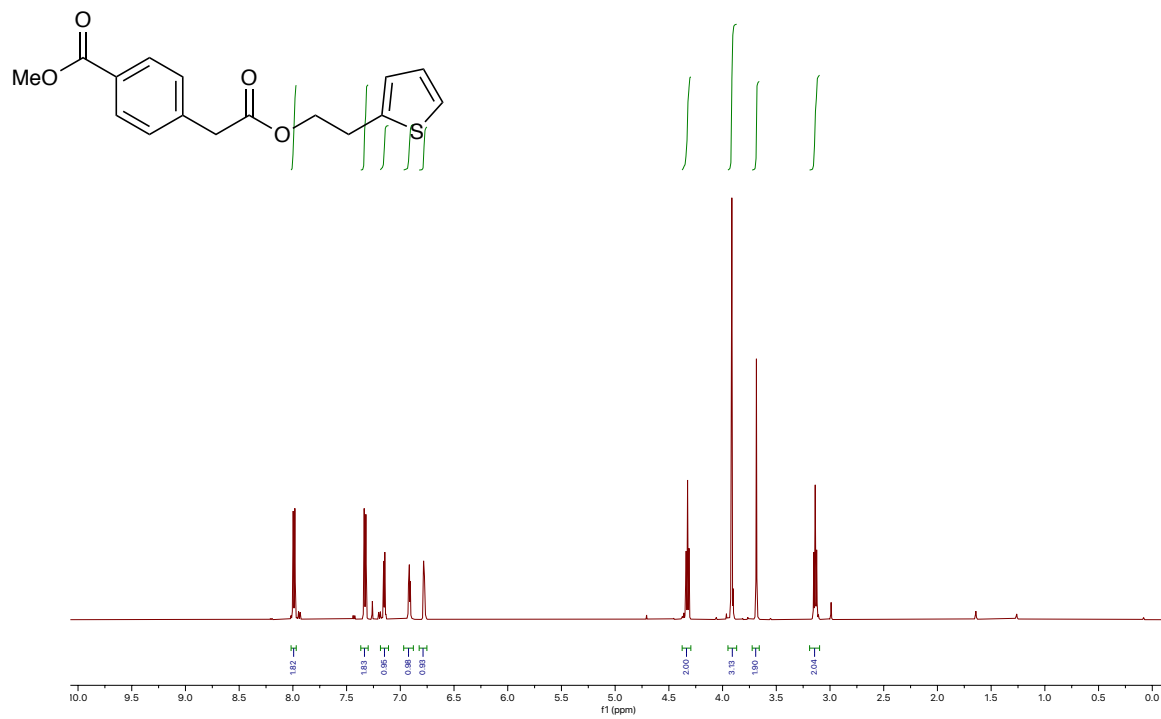


¹³C NMR of **4q**



Supporting Information

^1H NMR of **4r**

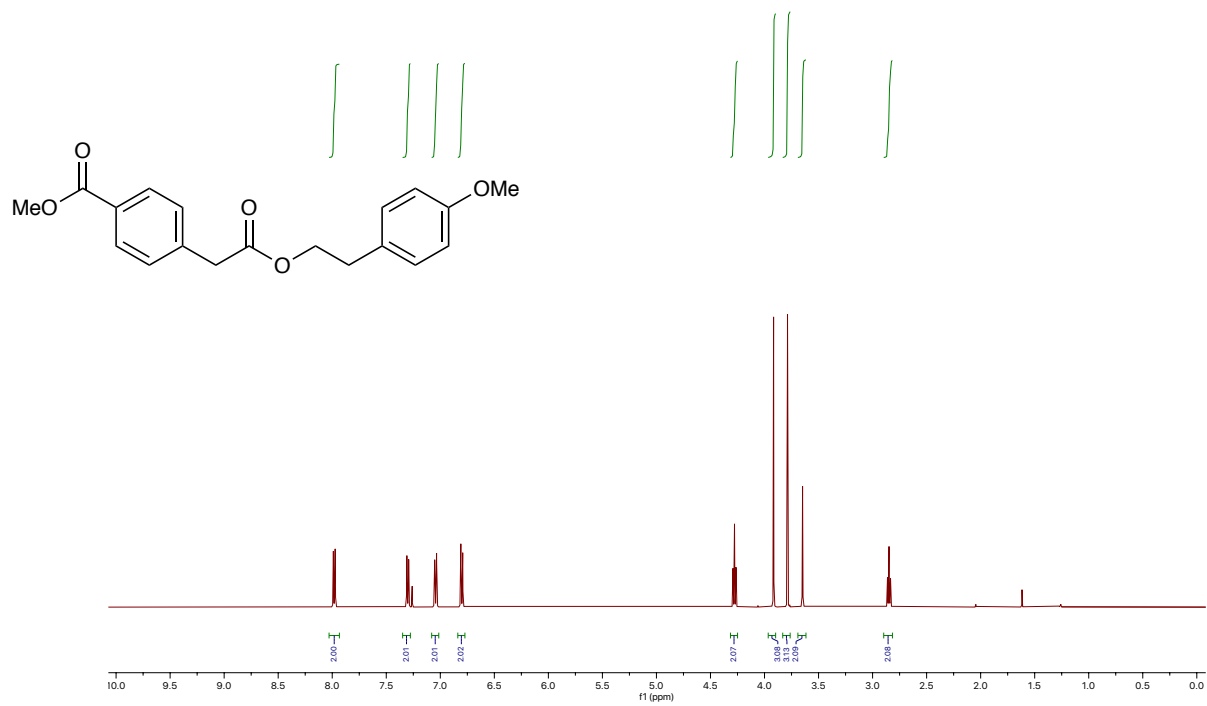


^{13}C NMR of **4r**

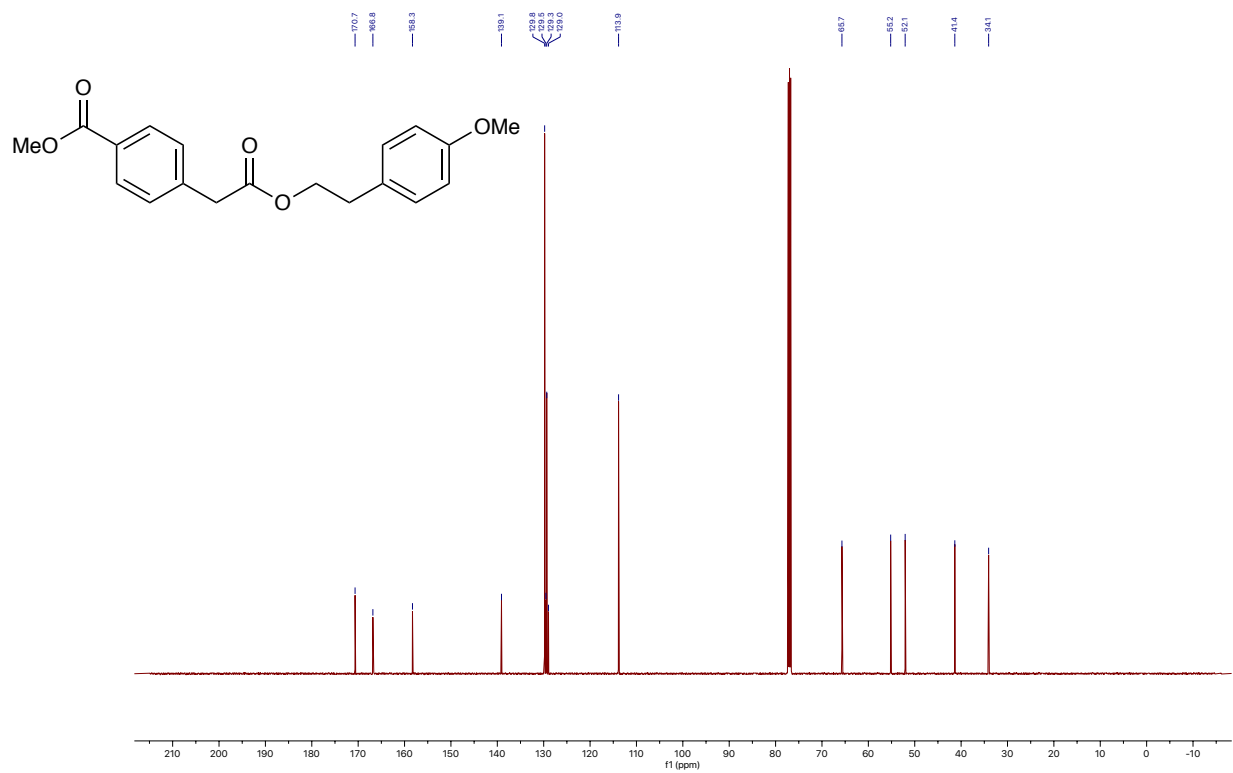


Supporting Information

¹H NMR of 4s

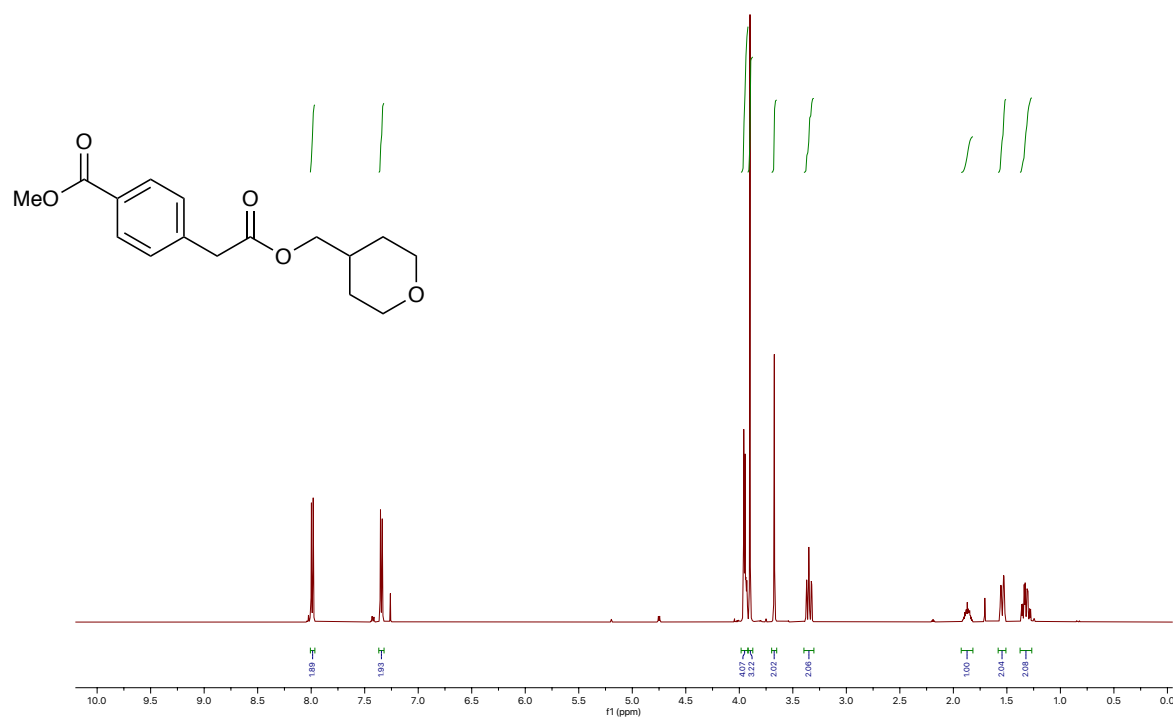


¹³C NMR of 4s

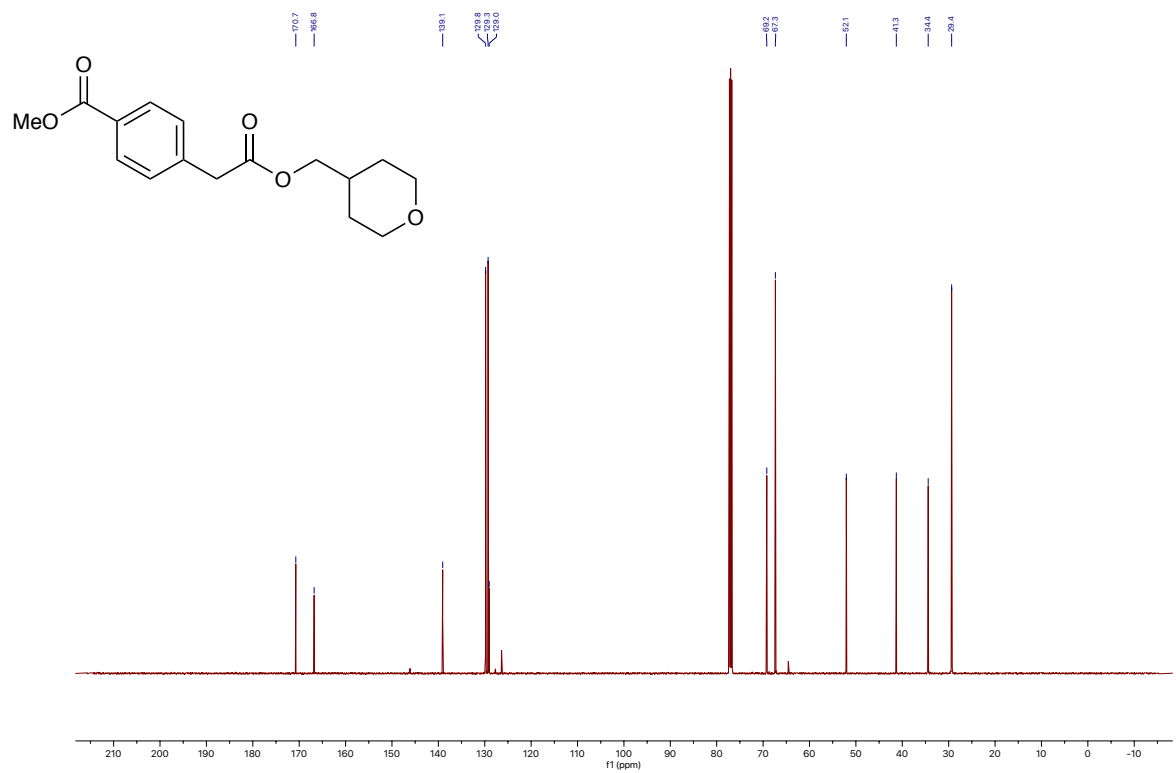


Supporting Information

^1H NMR of **4t**

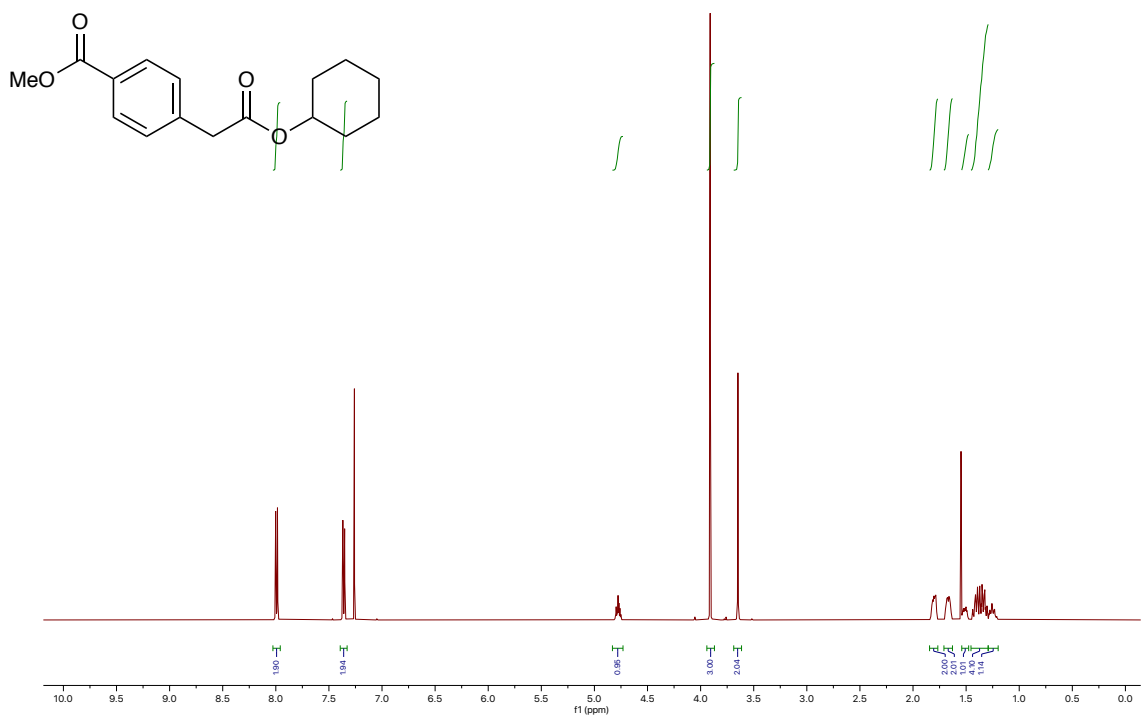


^{13}C NMR of **4t**

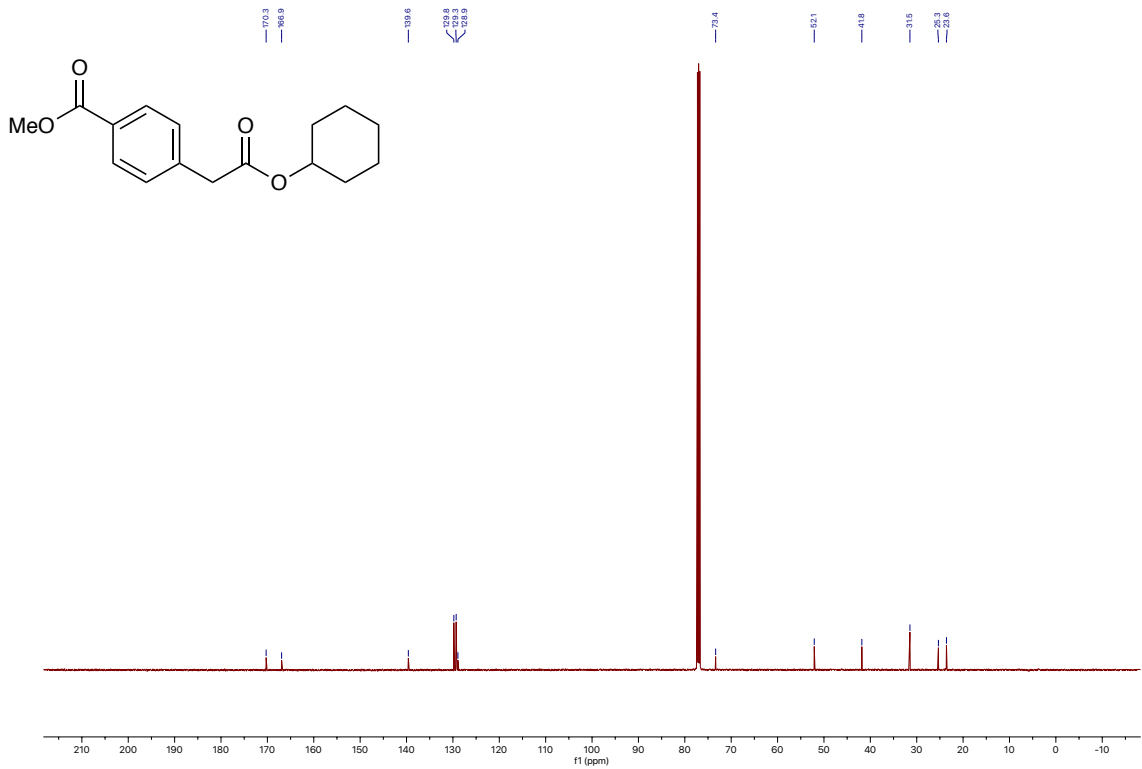


Supporting Information

^1H NMR of **4u**

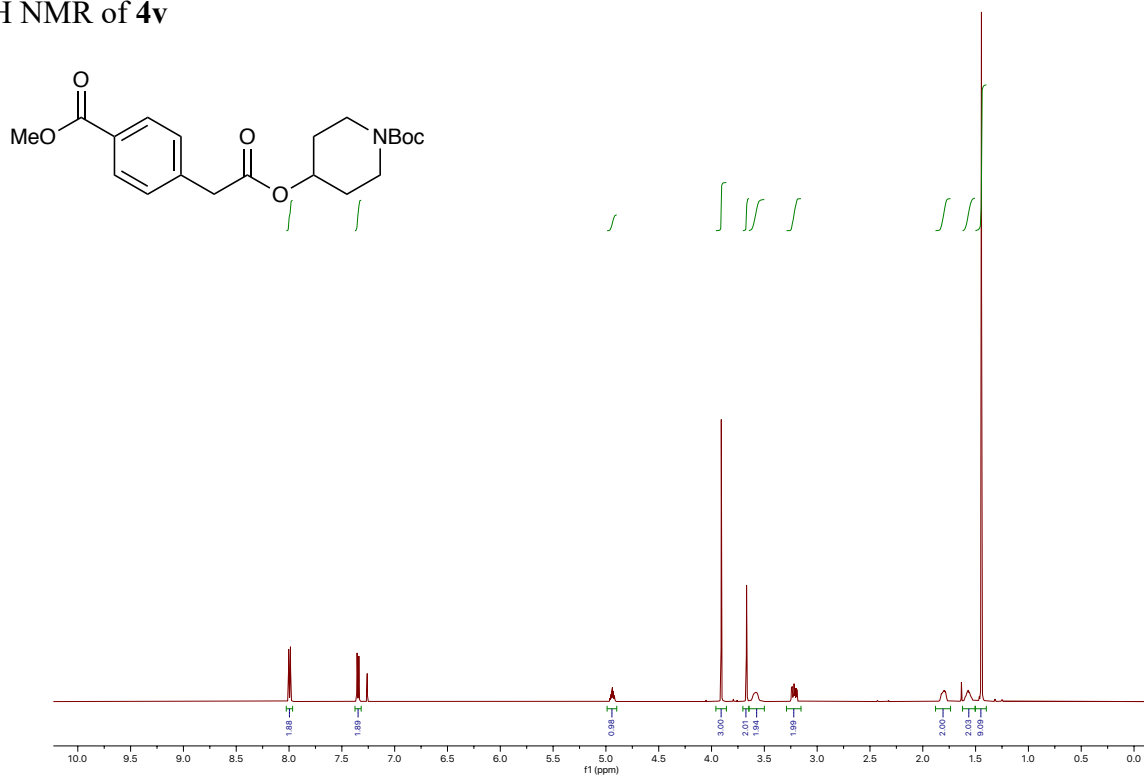


^{13}C NMR of **4u**

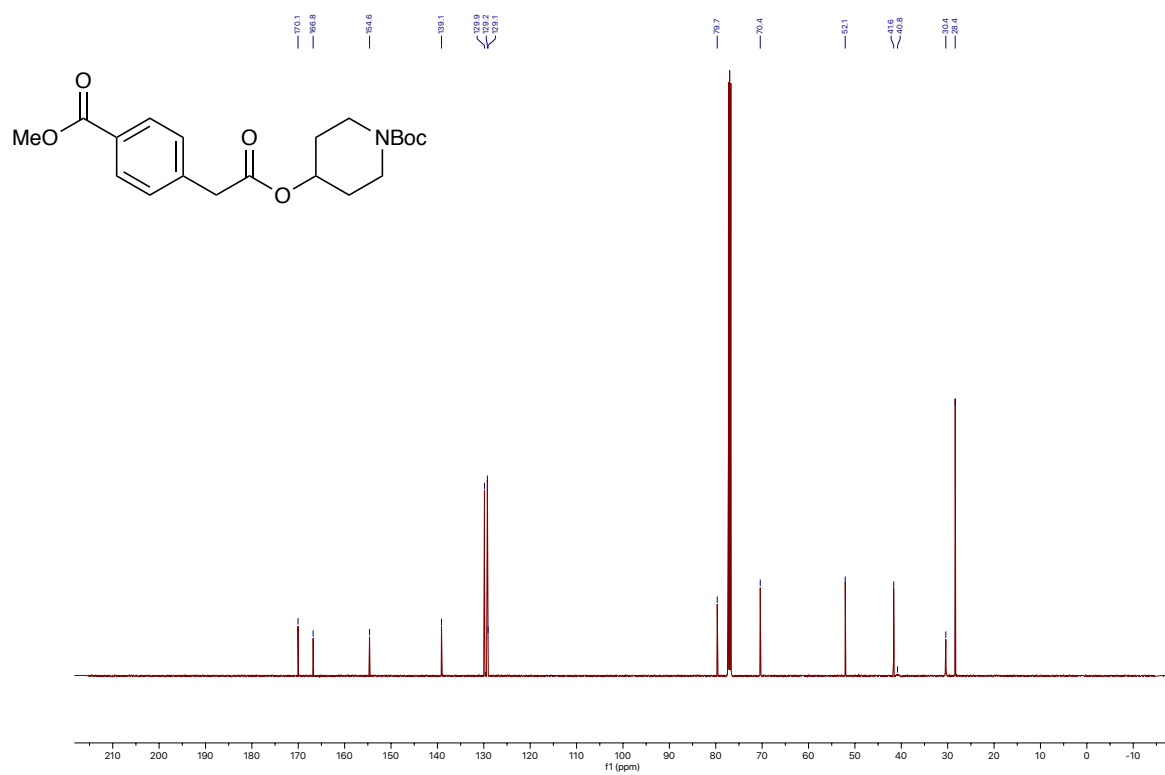


Supporting Information

^1H NMR of **4v**

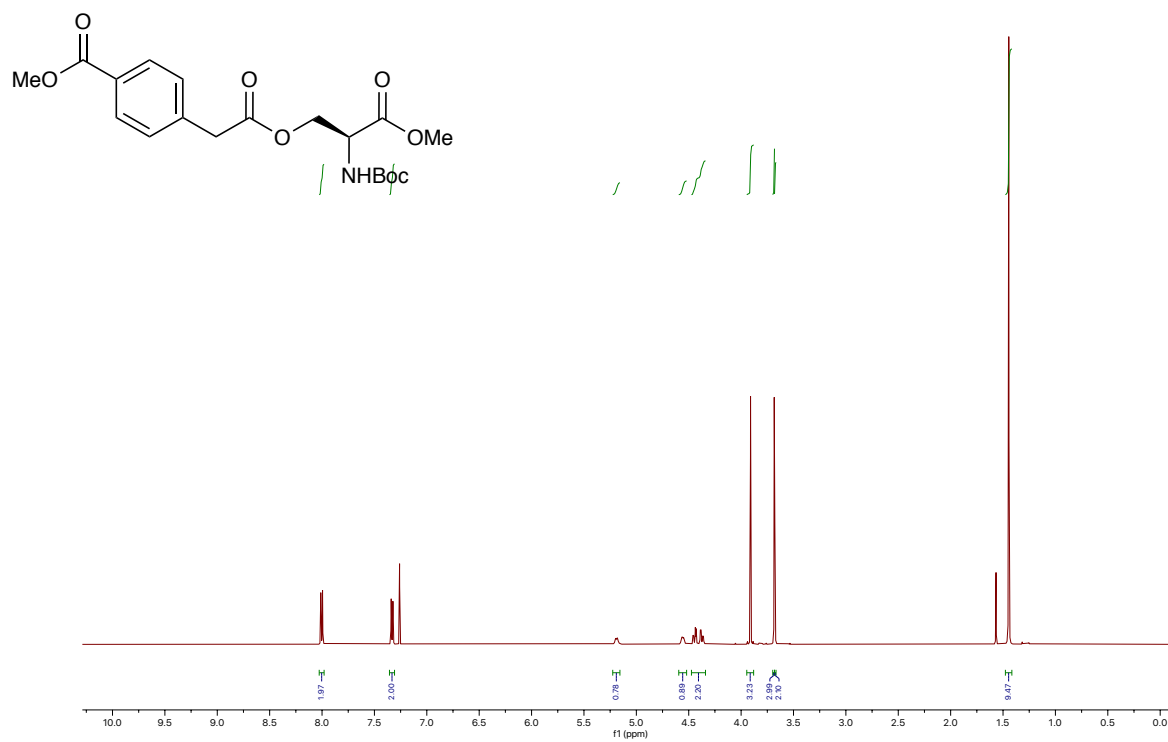


^{13}C NMR of **4v**

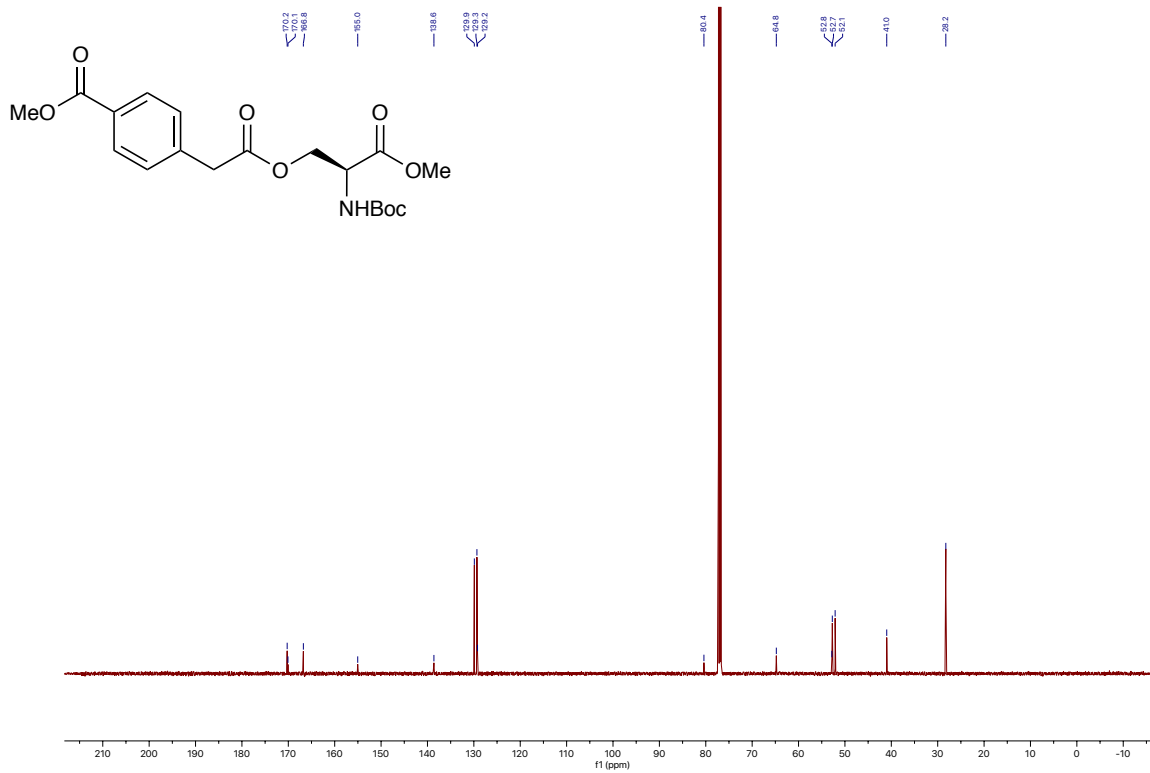


Supporting Information

^1H NMR of **4w**

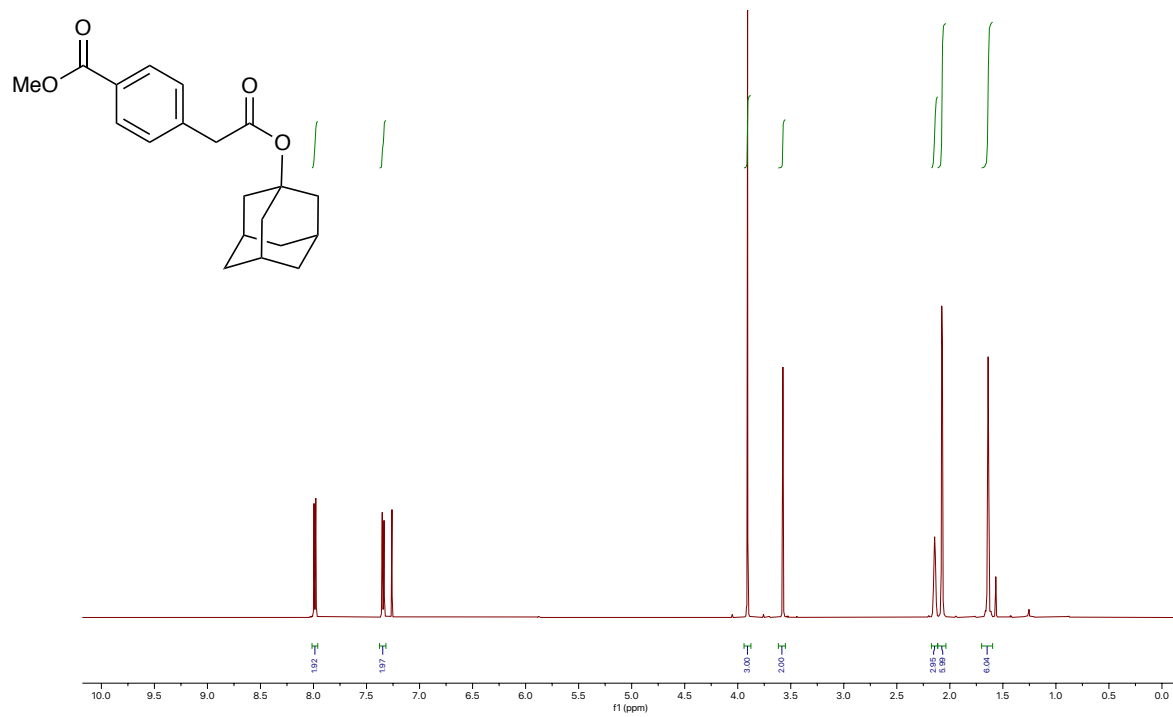


^{13}C NMR of **4w**

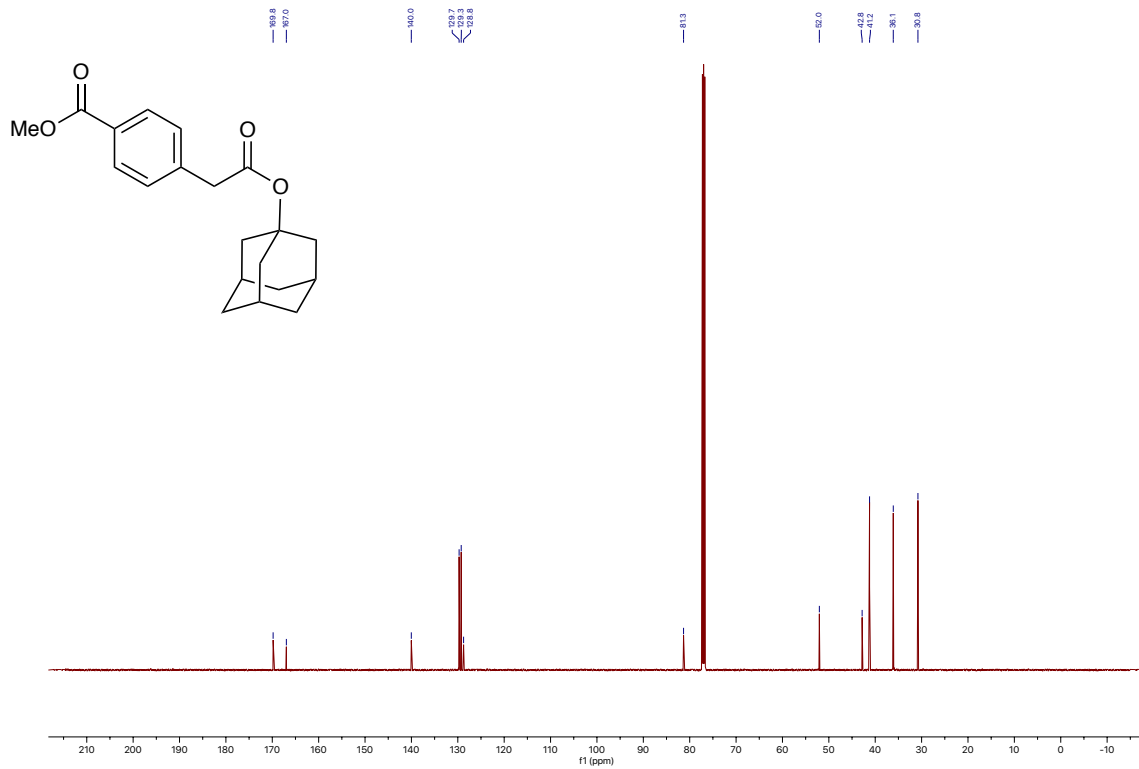


Supporting Information

^1H NMR of **4y**

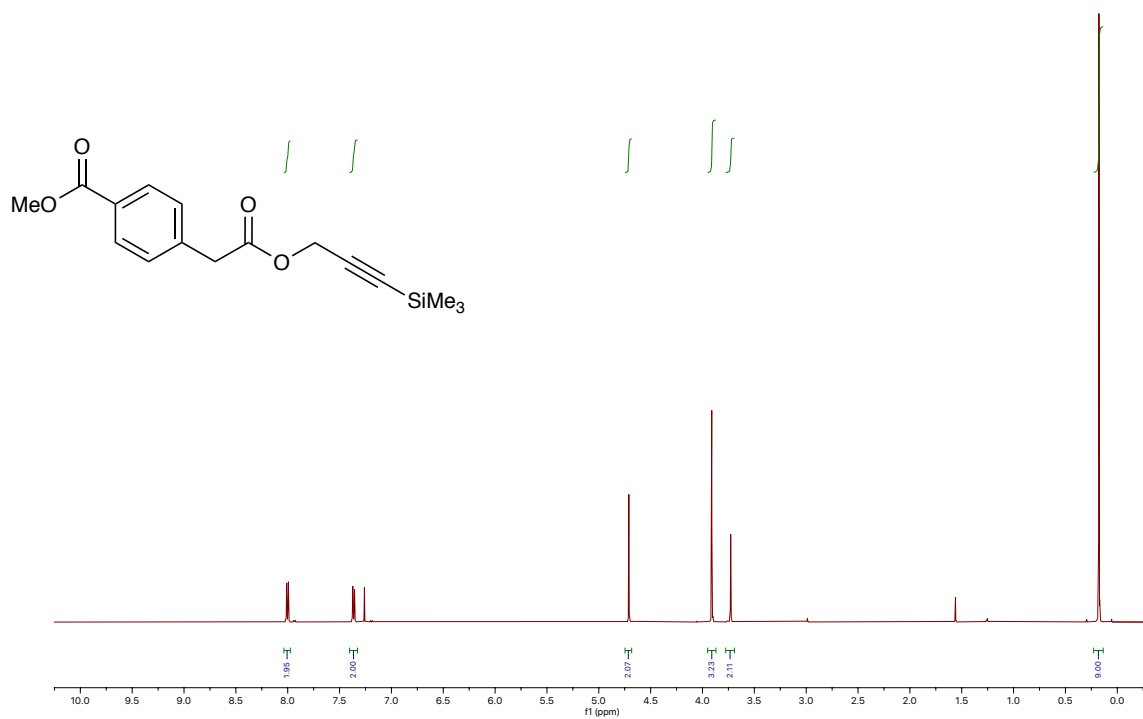


^{13}C NMR of **4y**

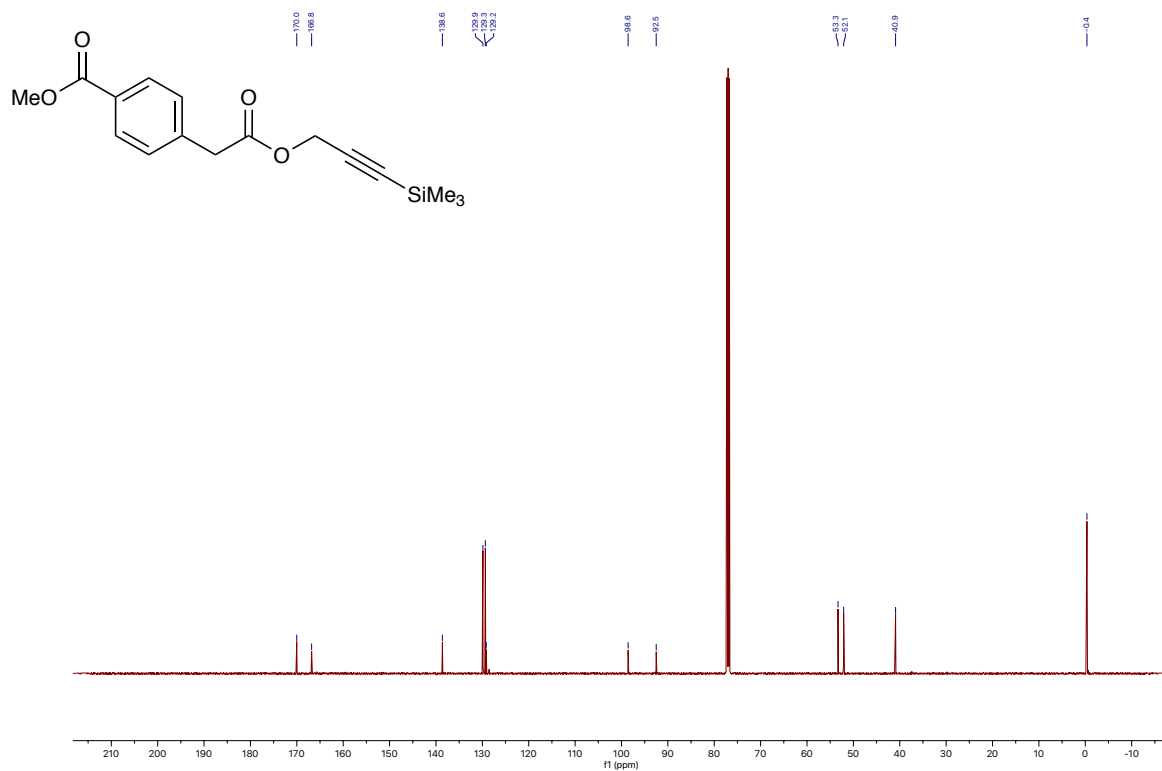


Supporting Information

^1H NMR of **4z**

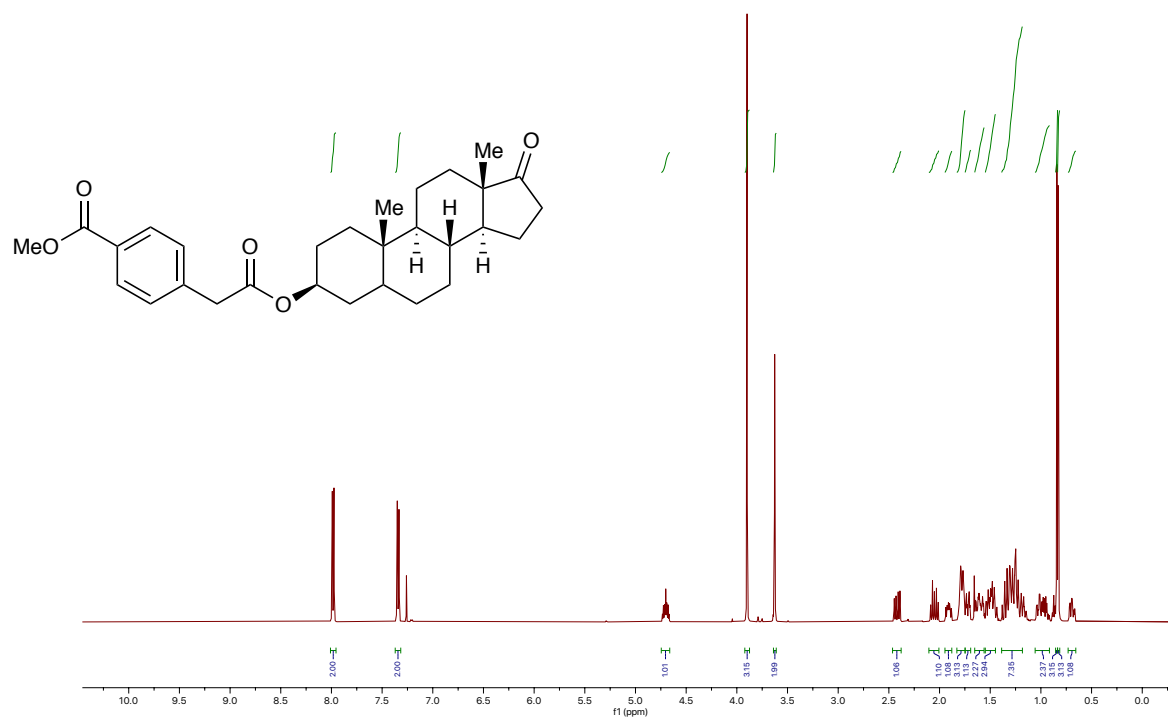


^{13}C NMR of **4z**

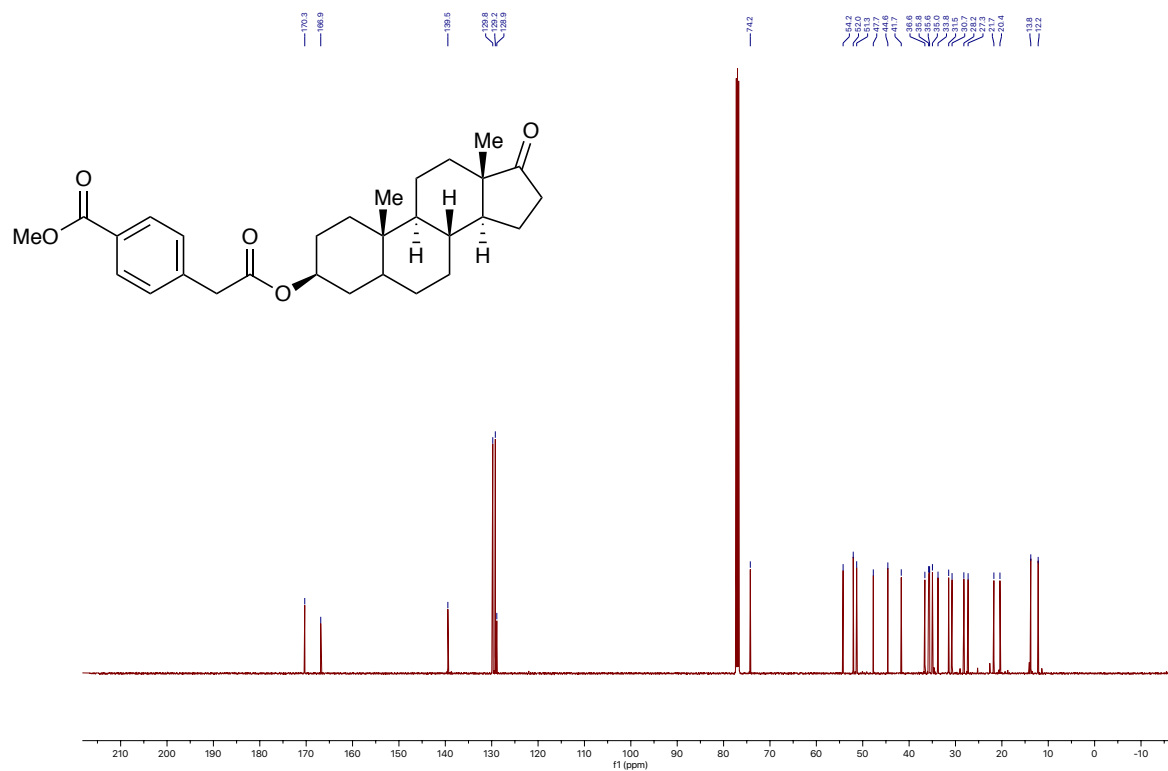


Supporting Information

^1H NMR of **4aa**

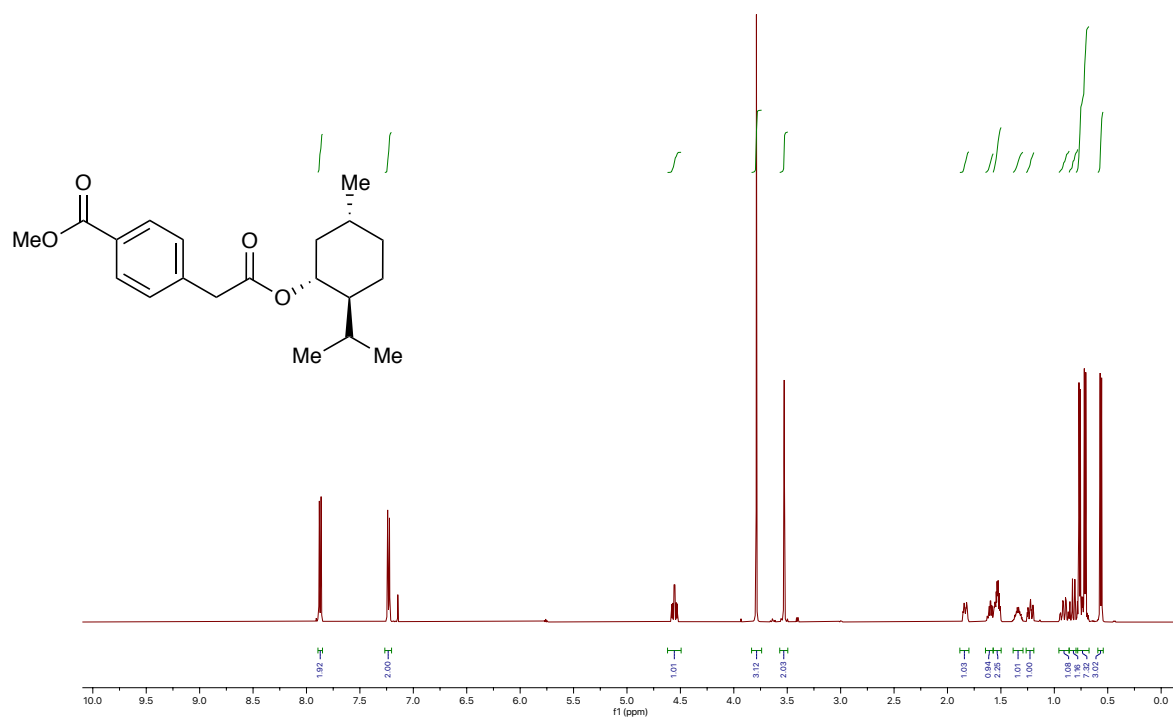


^{13}C NMR of **4aa**



Supporting Information

^1H NMR of **4ab**



^{13}C NMR of **4ab**

