

Catalytic Nazarov Reaction of Unactive Substrates via Binary-Acid Strategy

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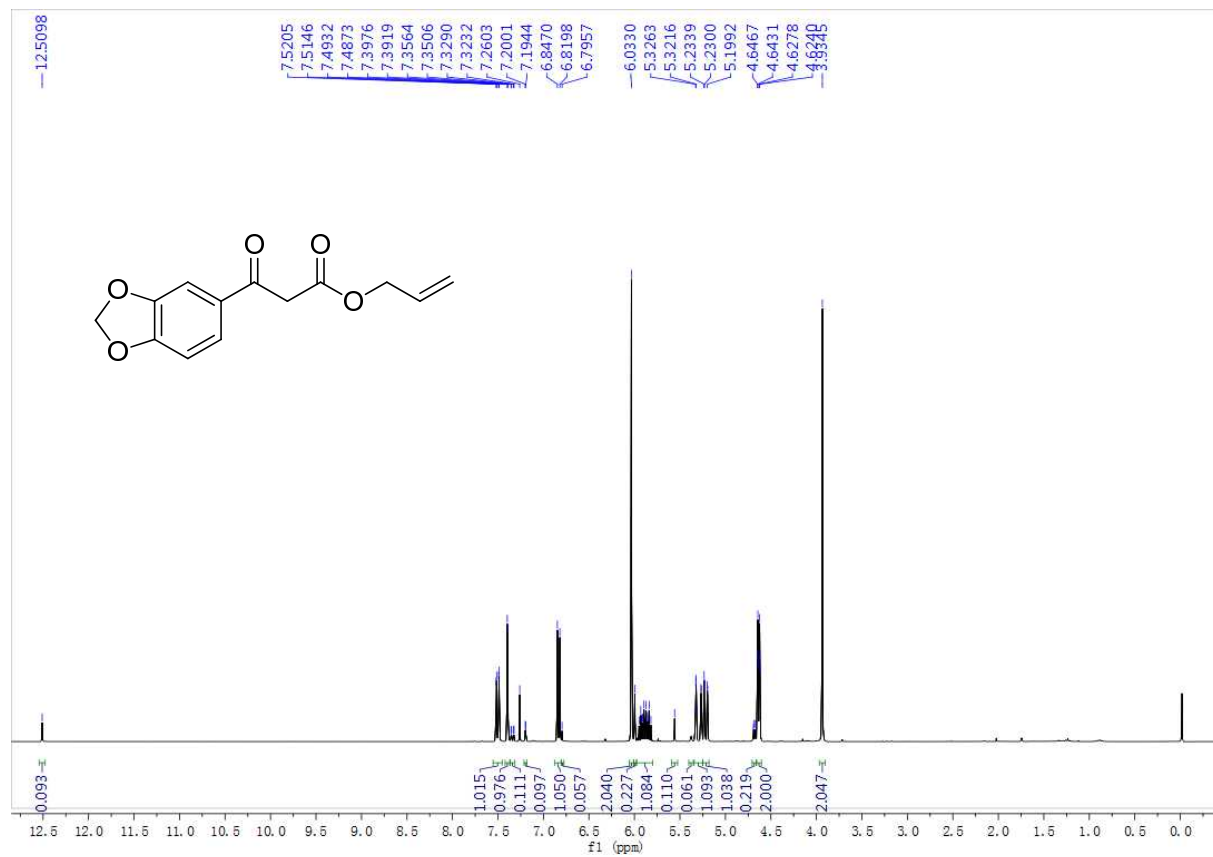
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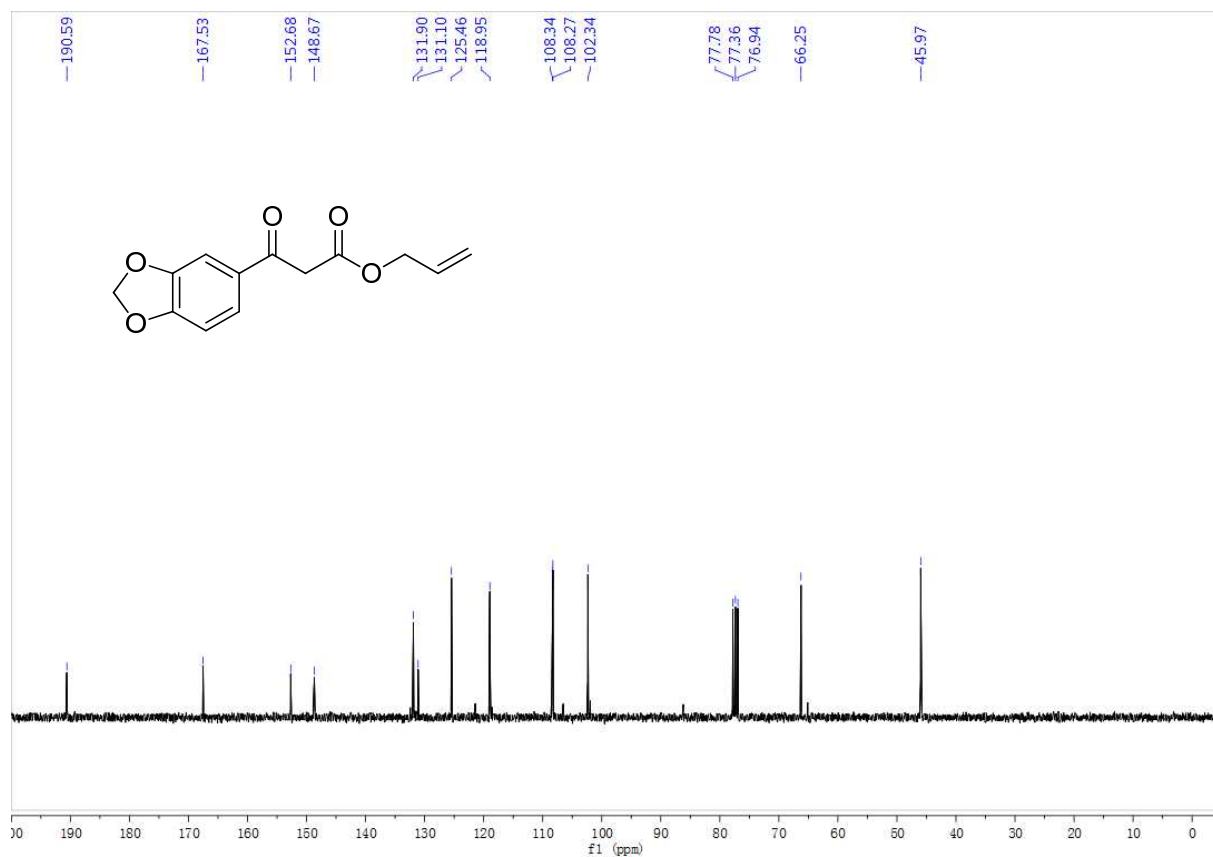
NMR Spectra-----	S2
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Intermediate

¹H NMR

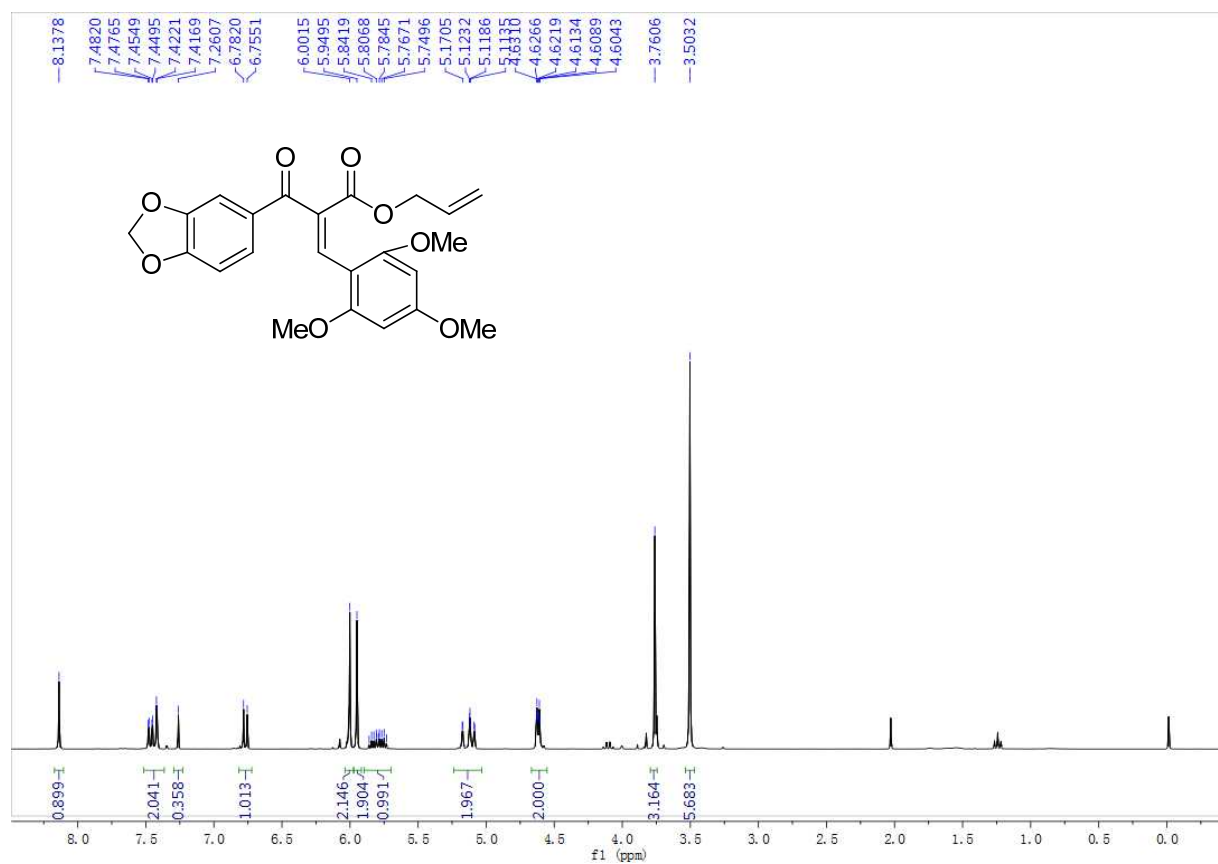


¹³C NMR

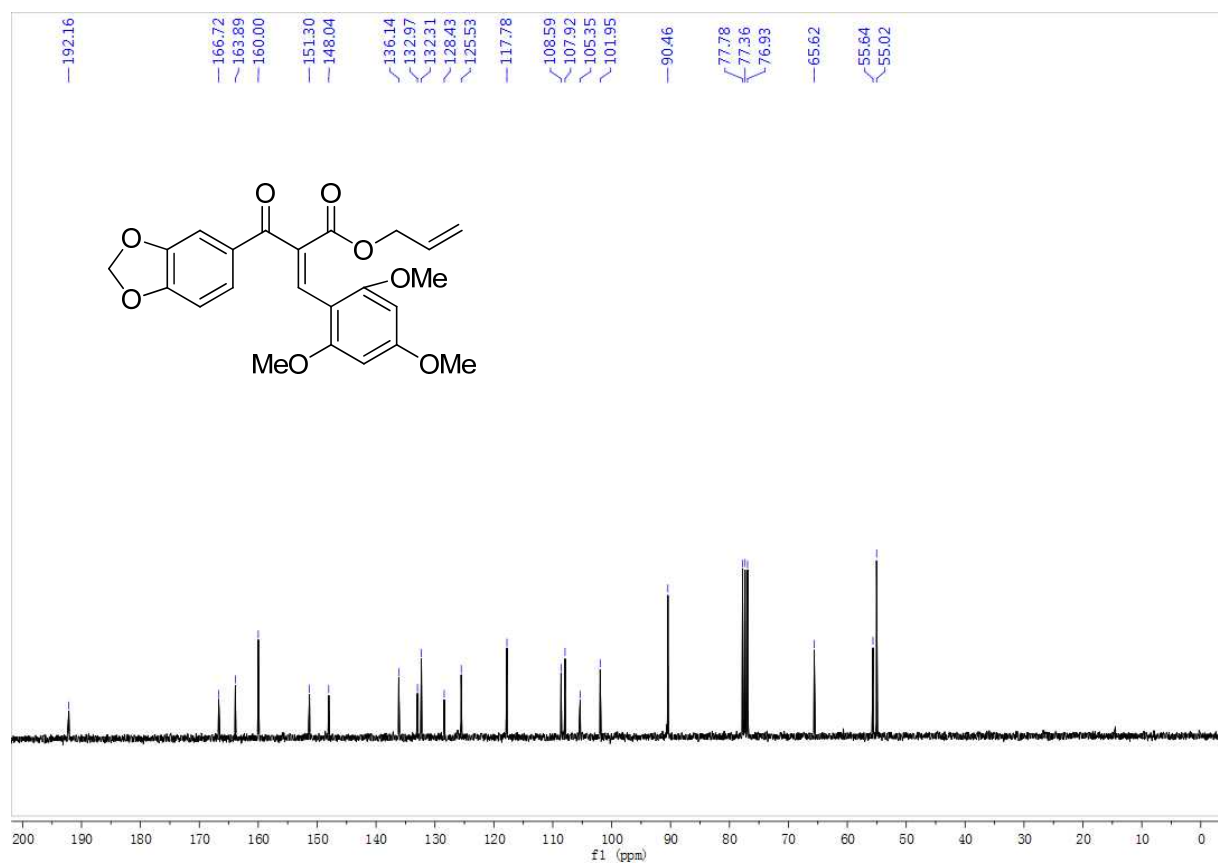


Compound 1c

¹H NMR

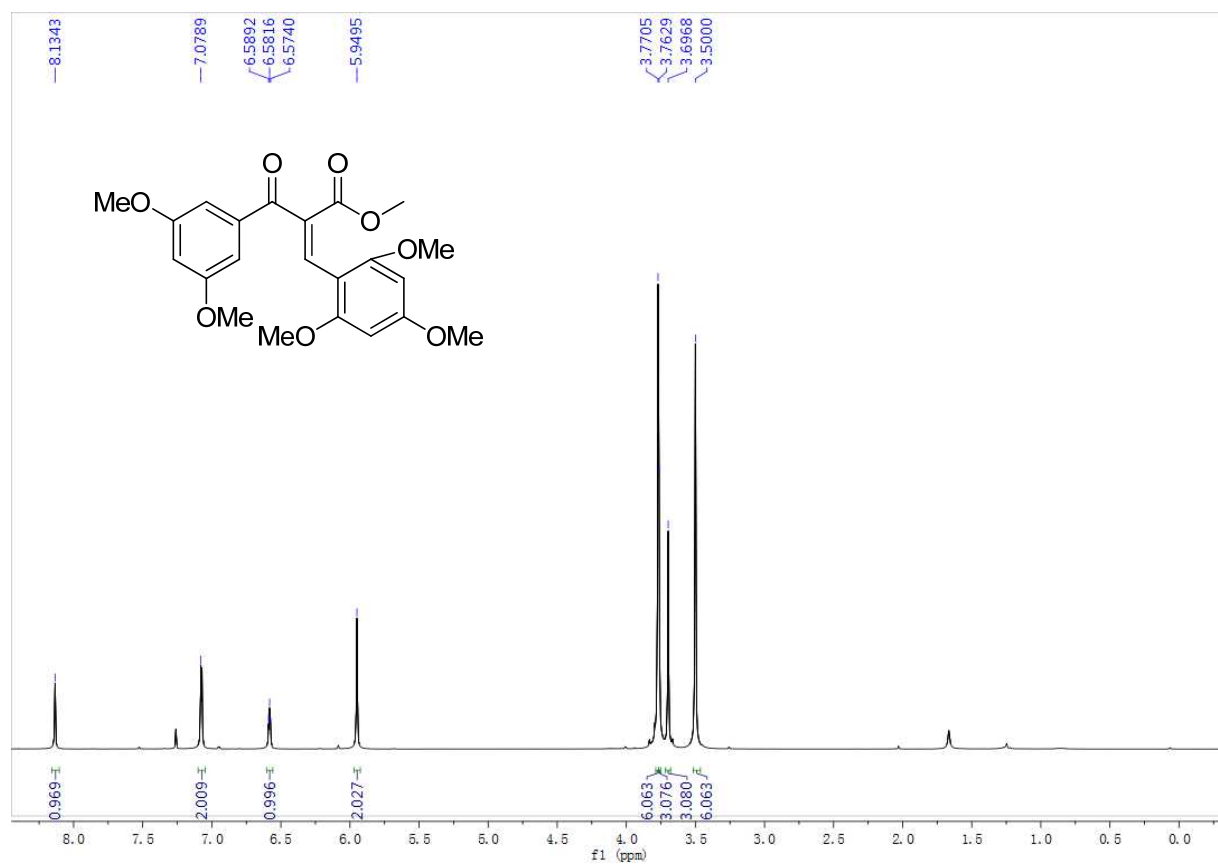


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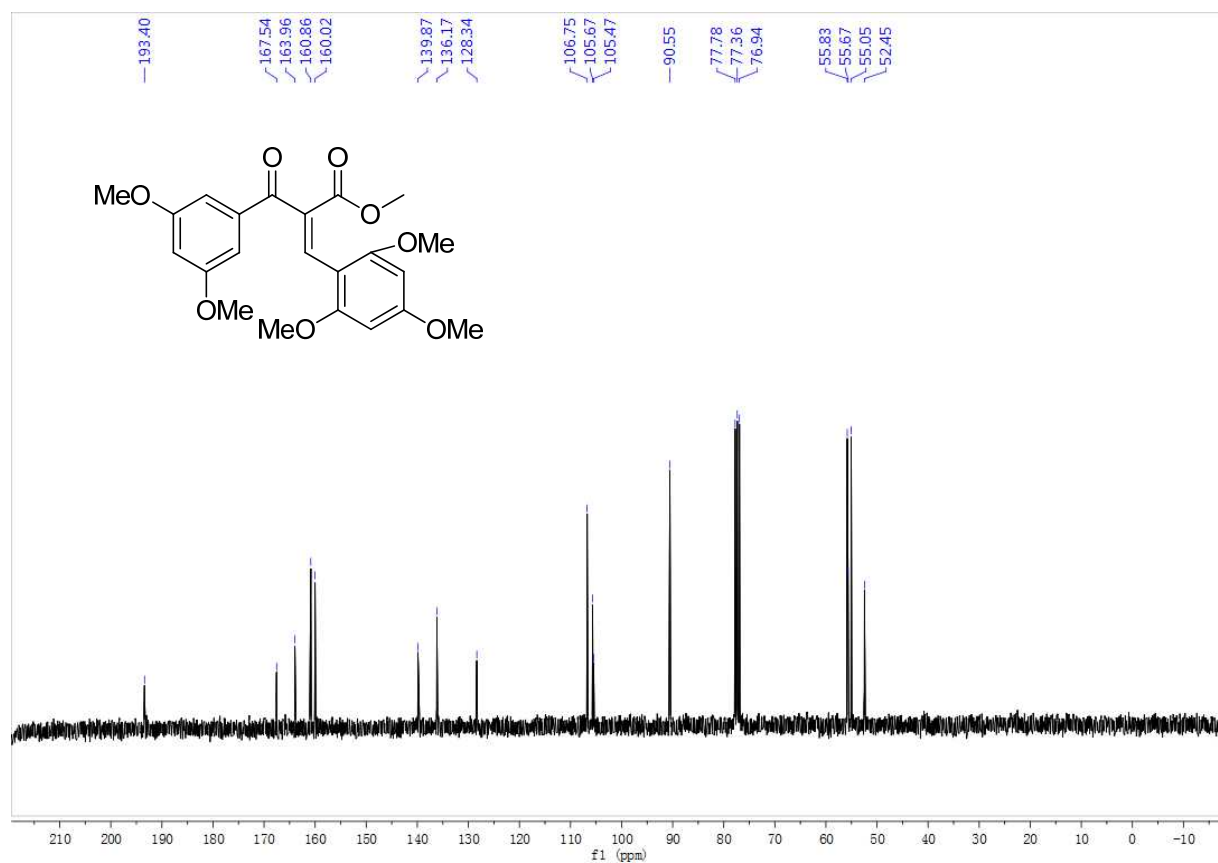


Compound **1d**

^1H NMR

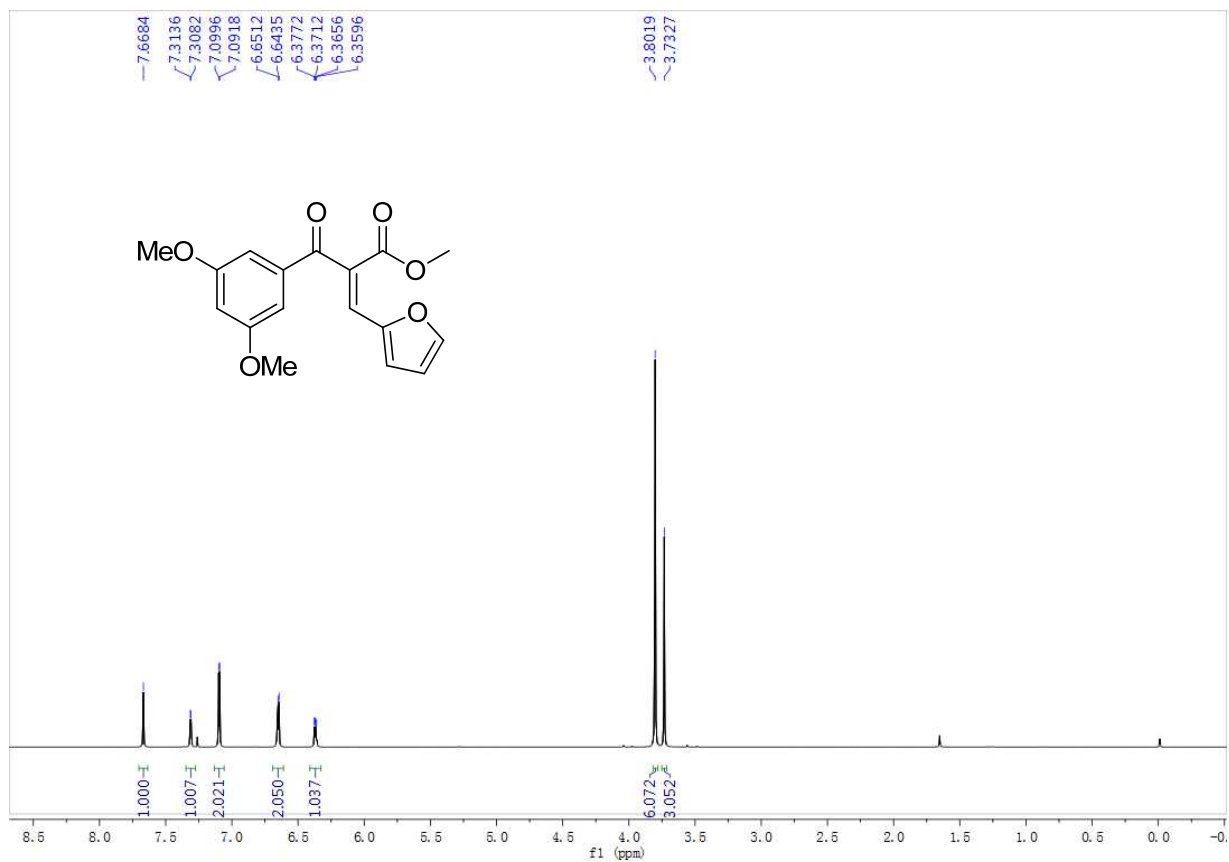


^{13}C NMR

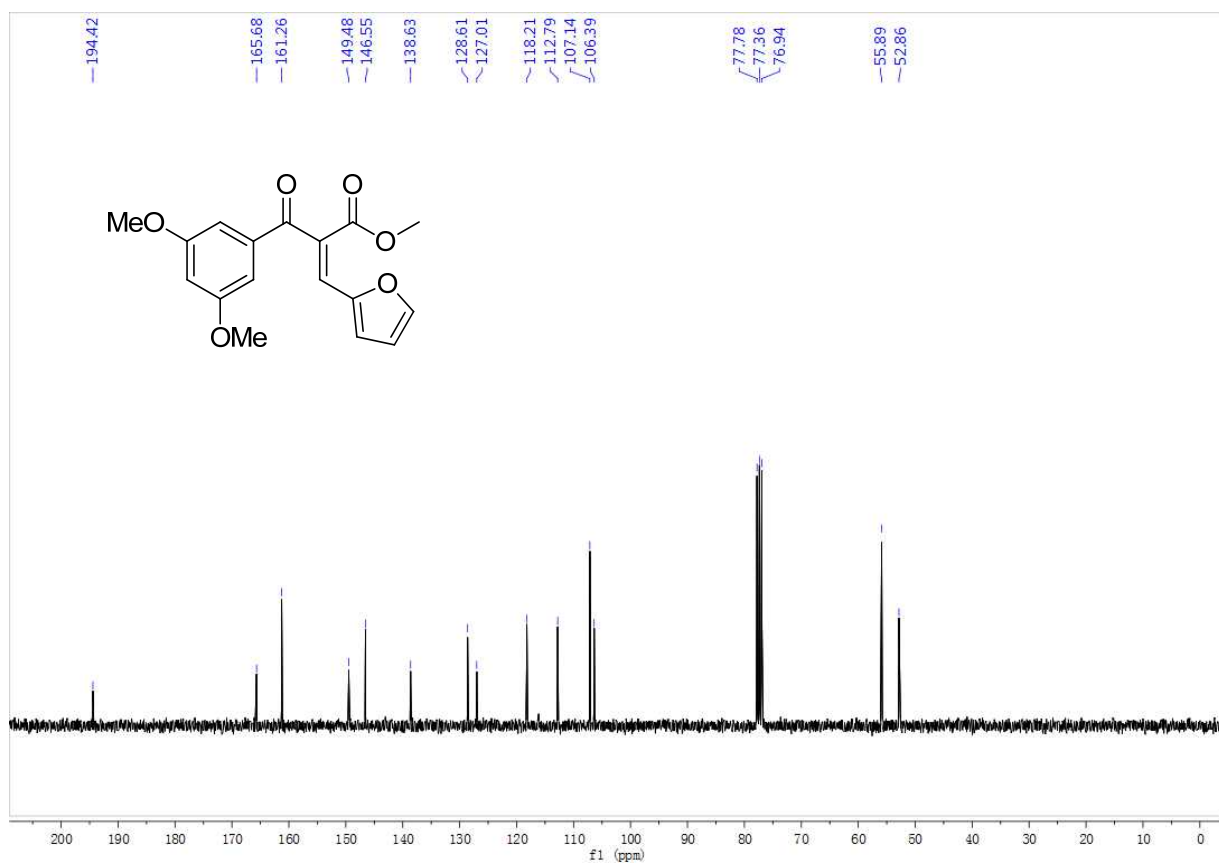


Compound **1e**

^1H NMR

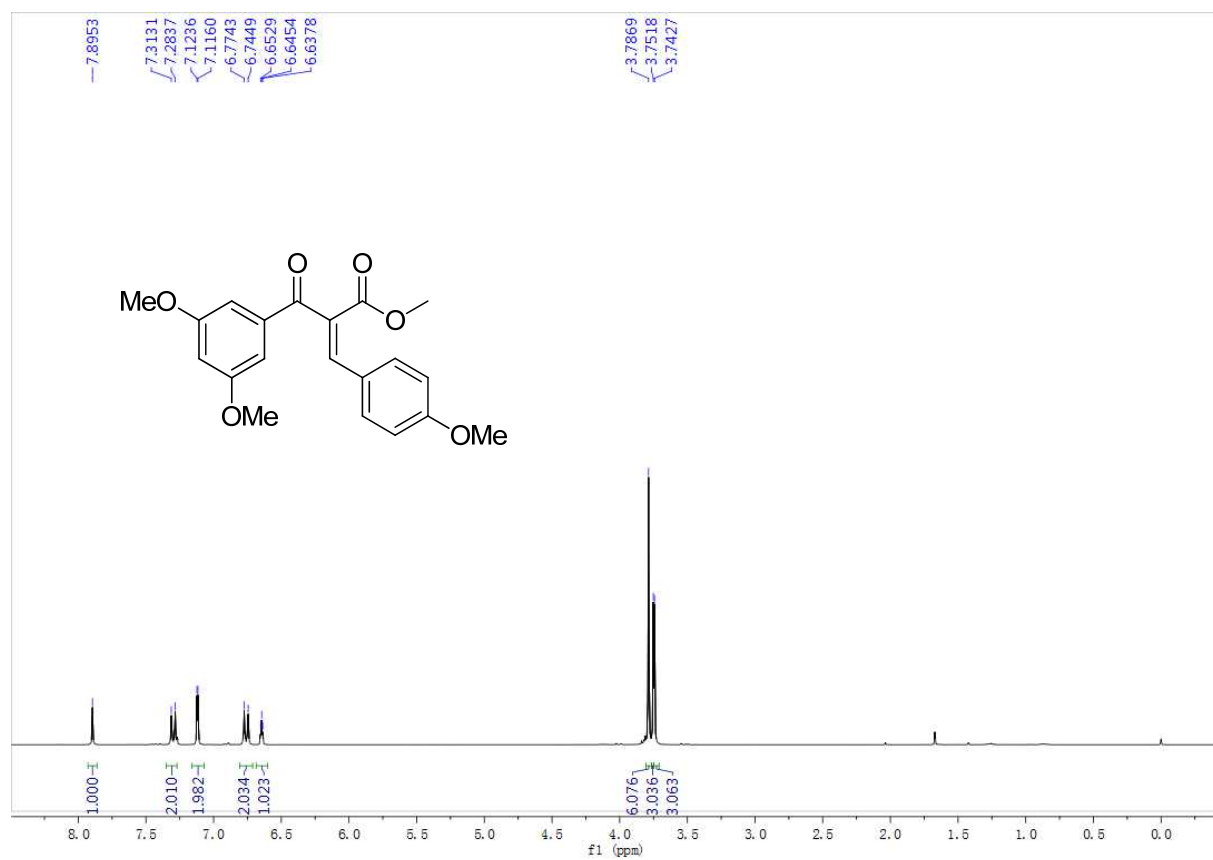


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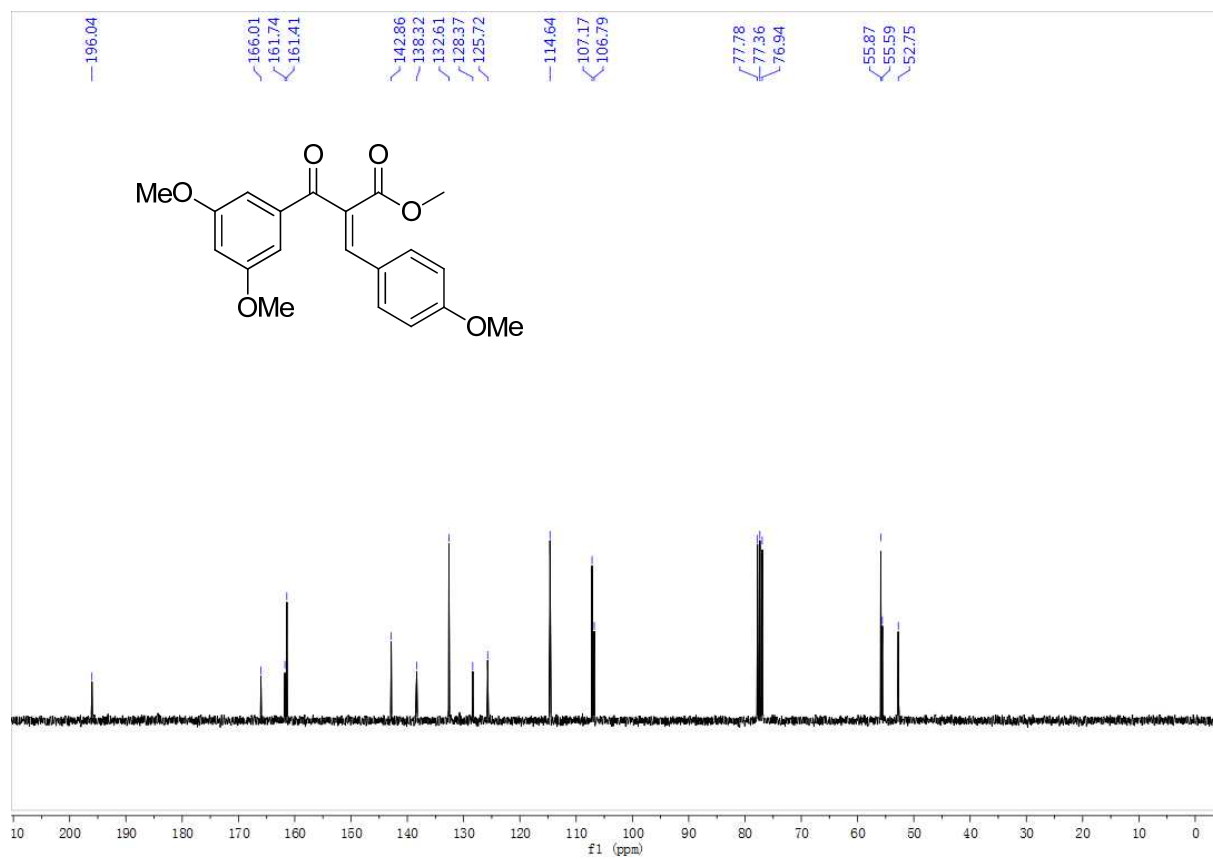


Compound **1f**

^1H NMR

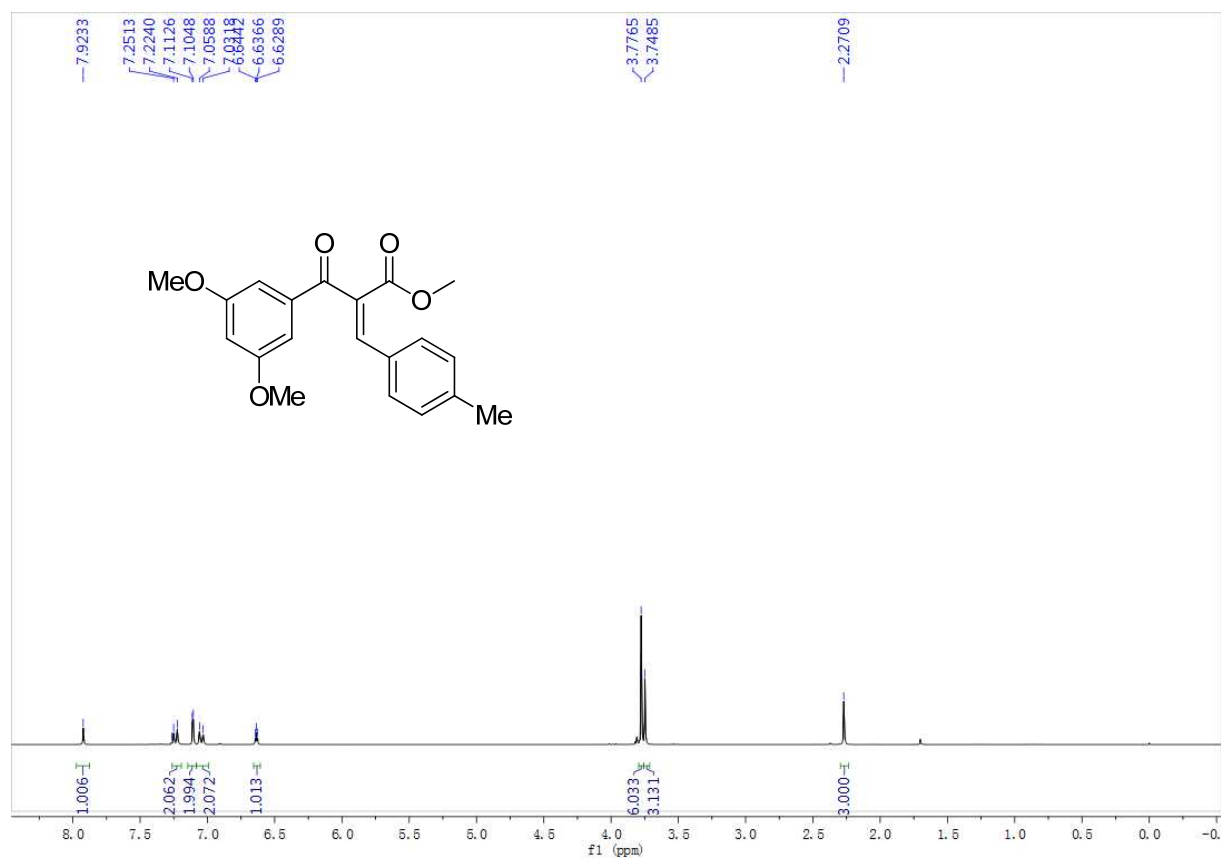


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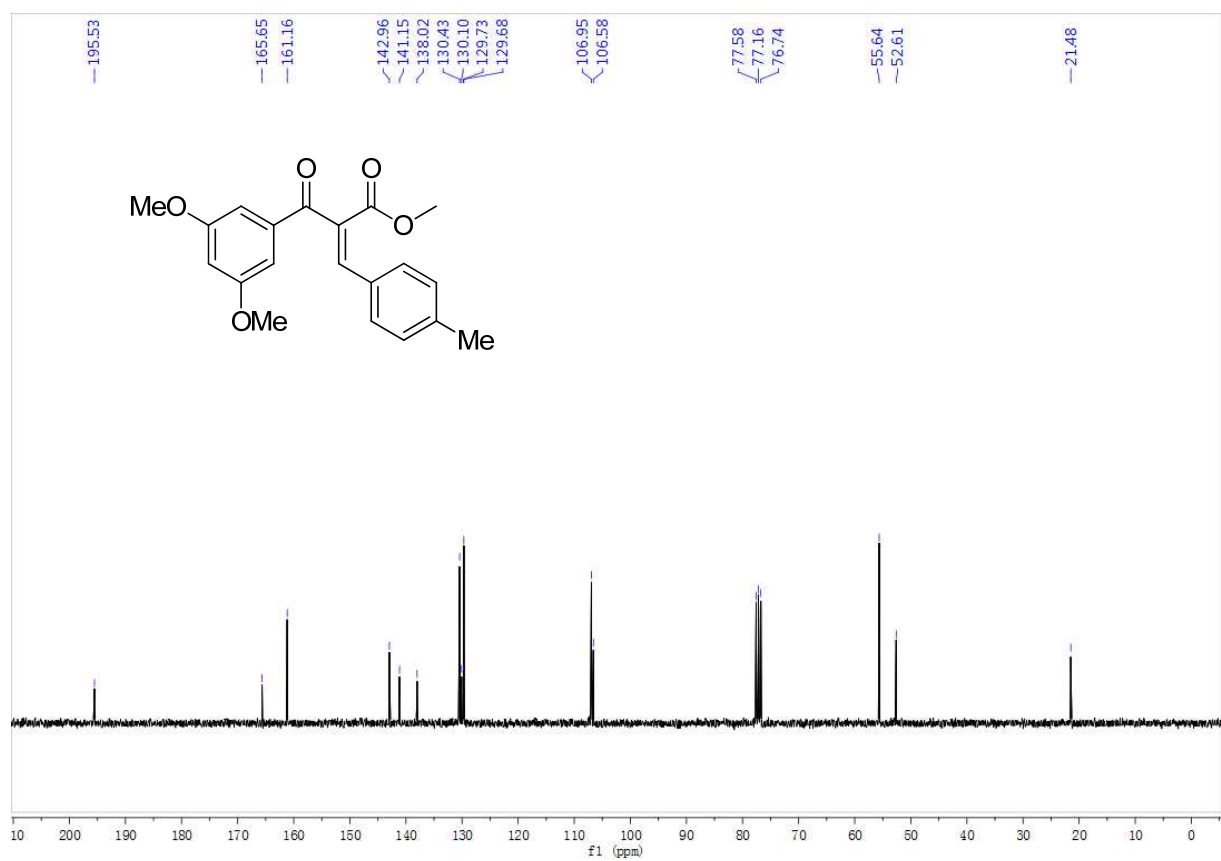


Compound **1g**

^1H NMR

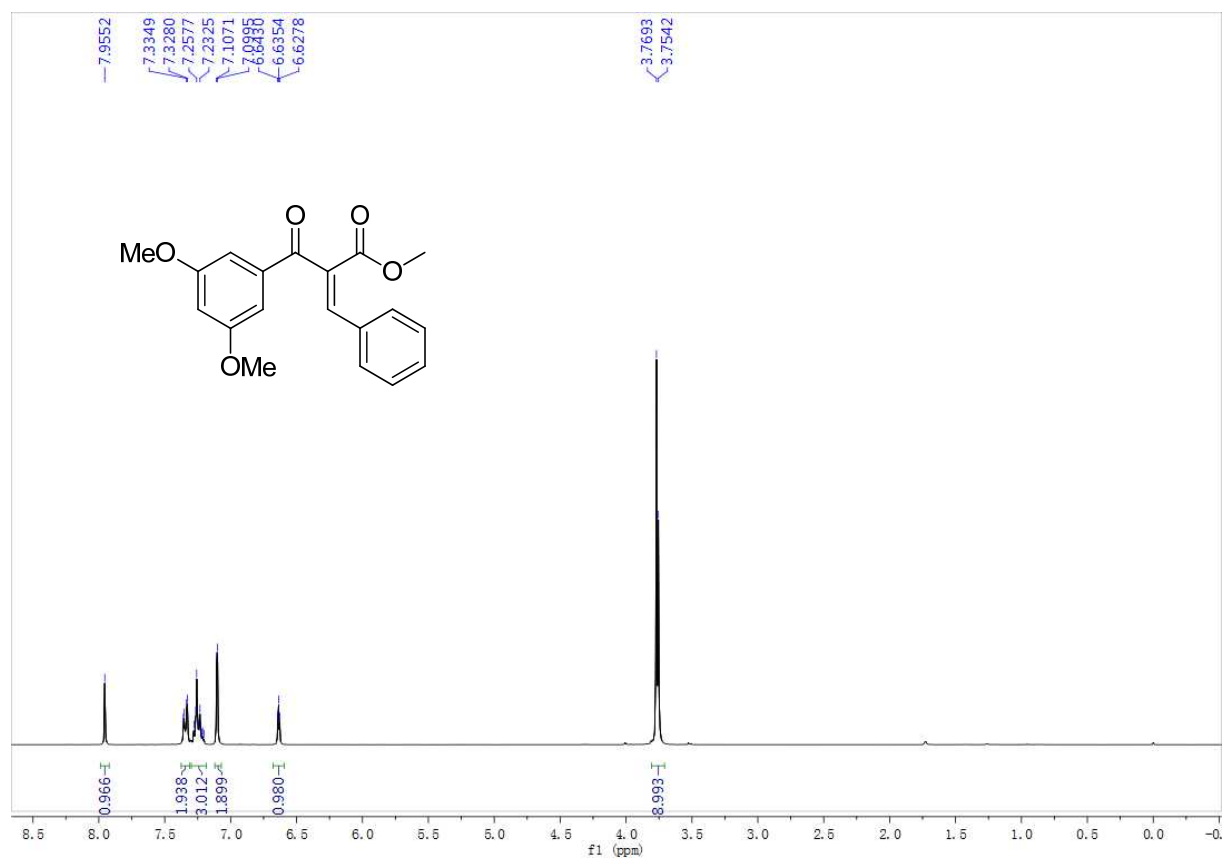


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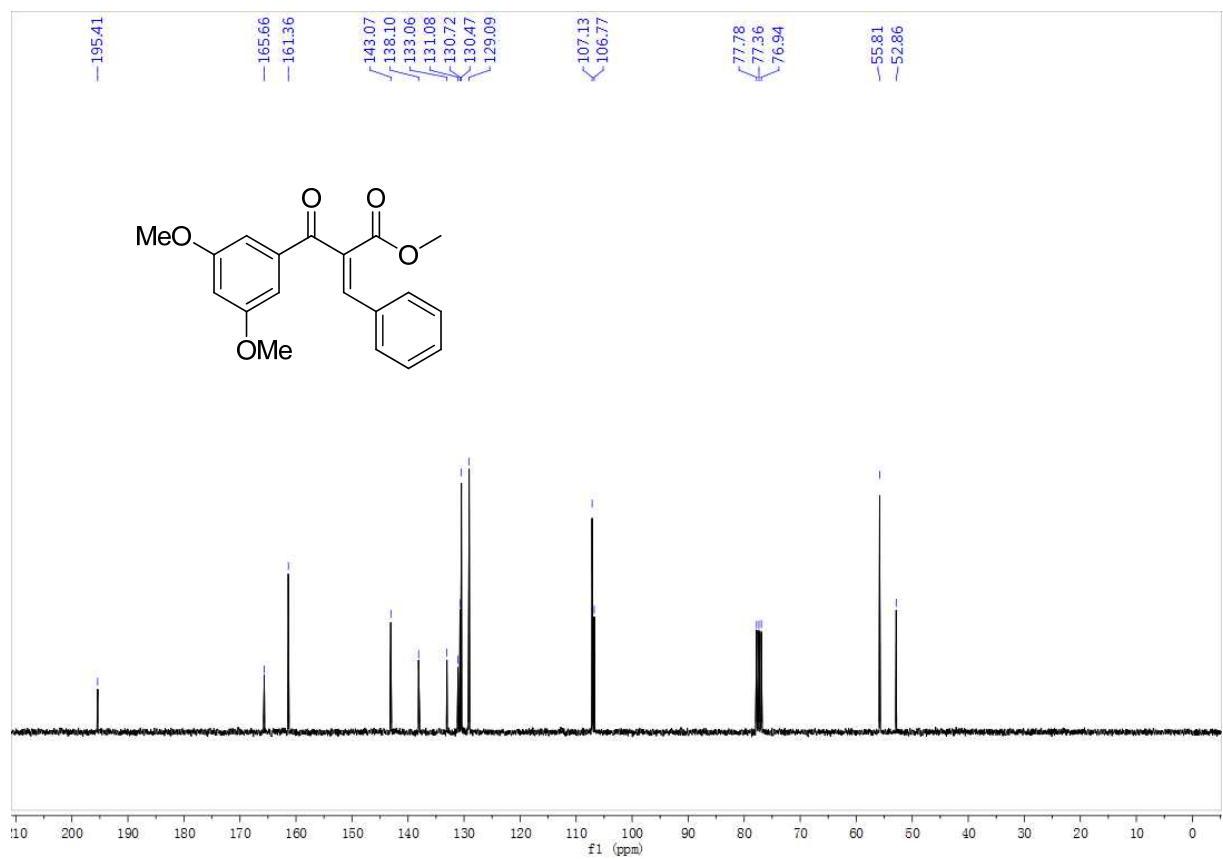


Compound **1h**

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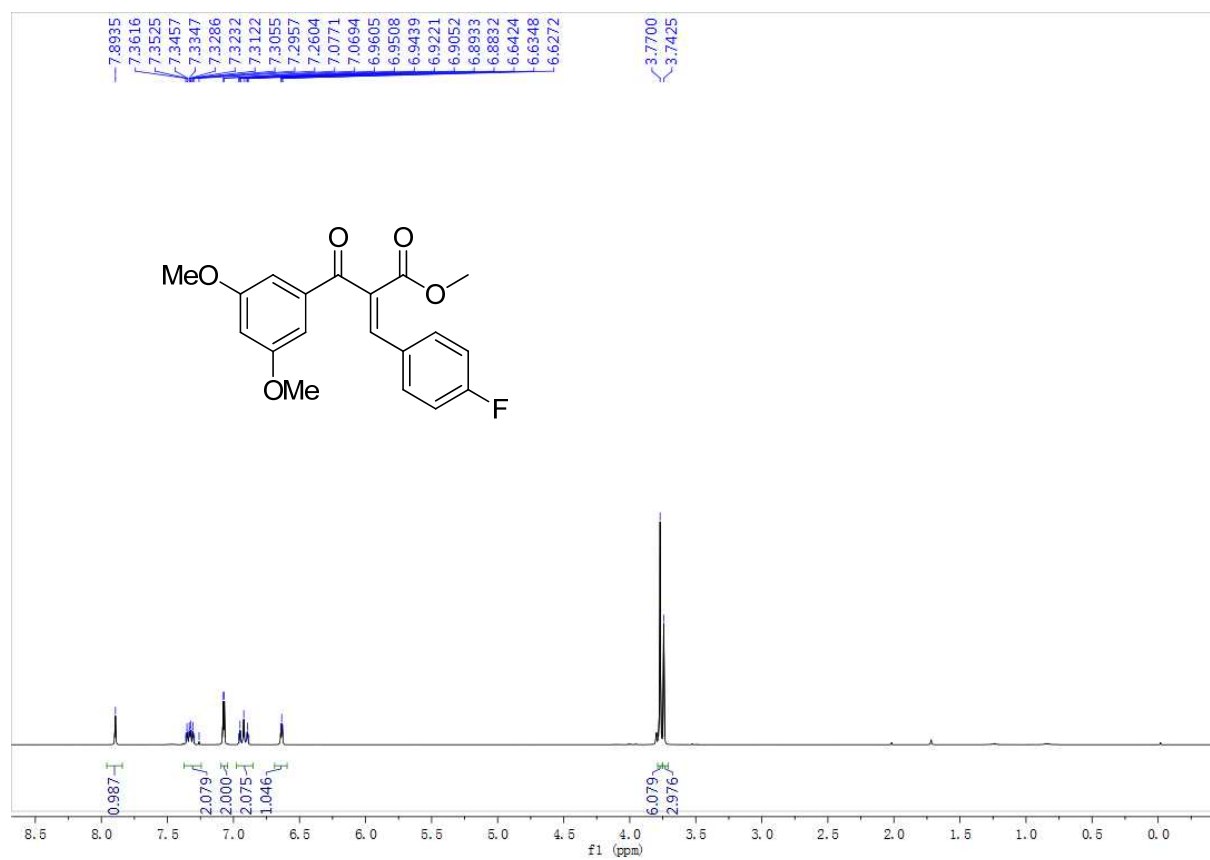


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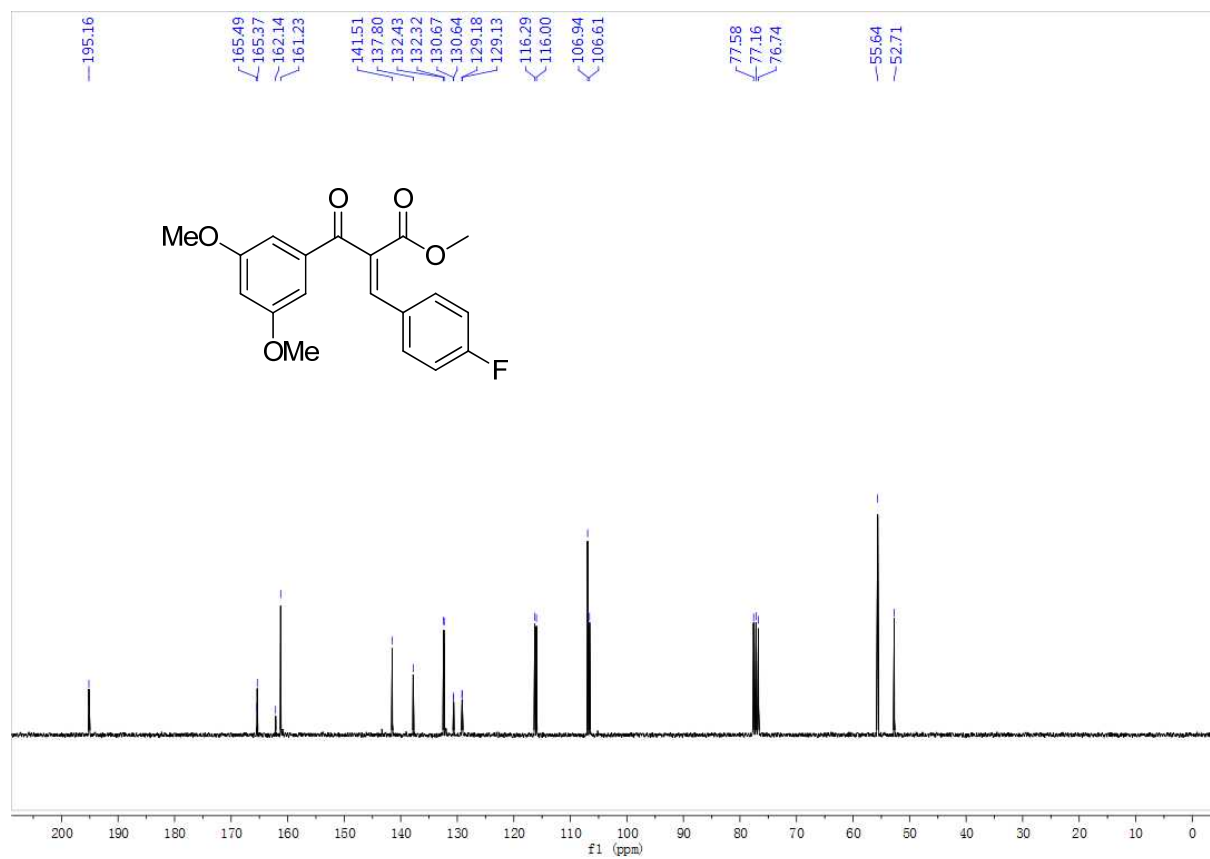


Compound **1i**

^1H NMR

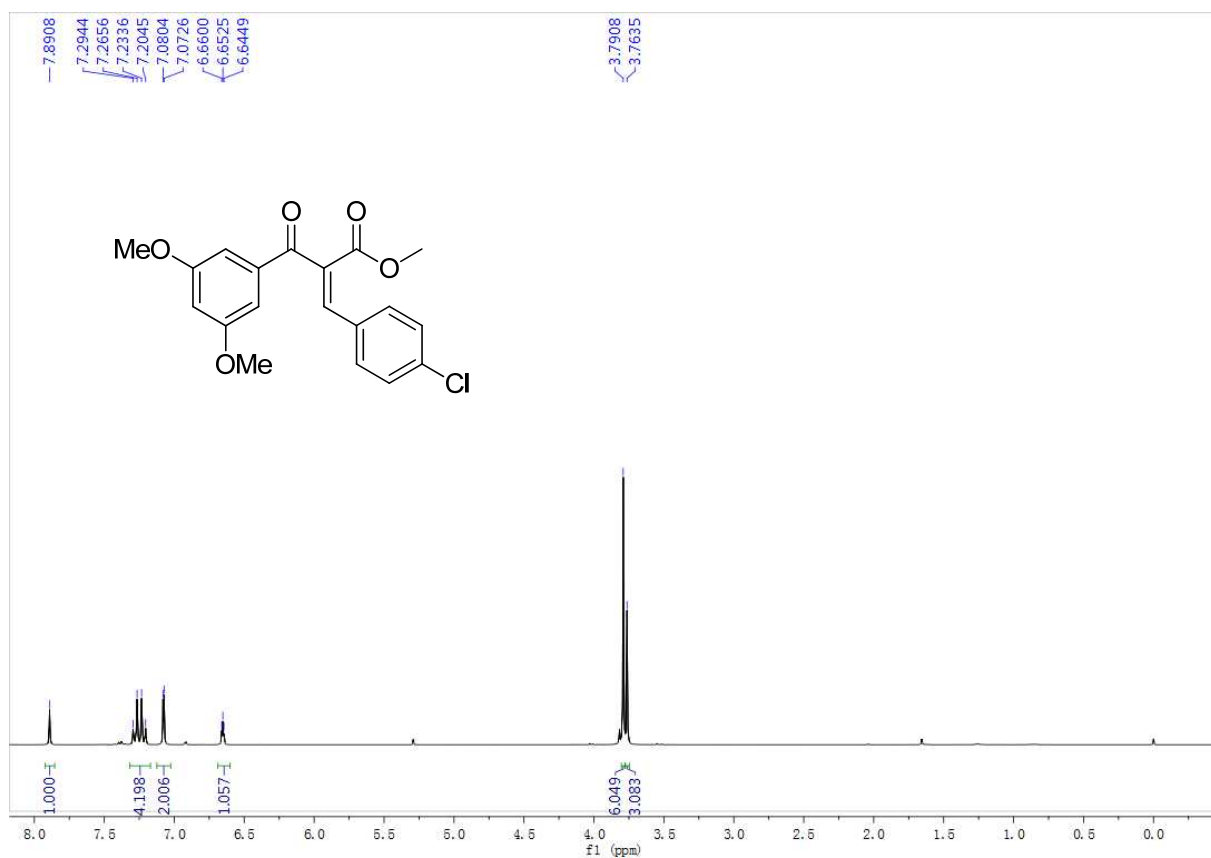


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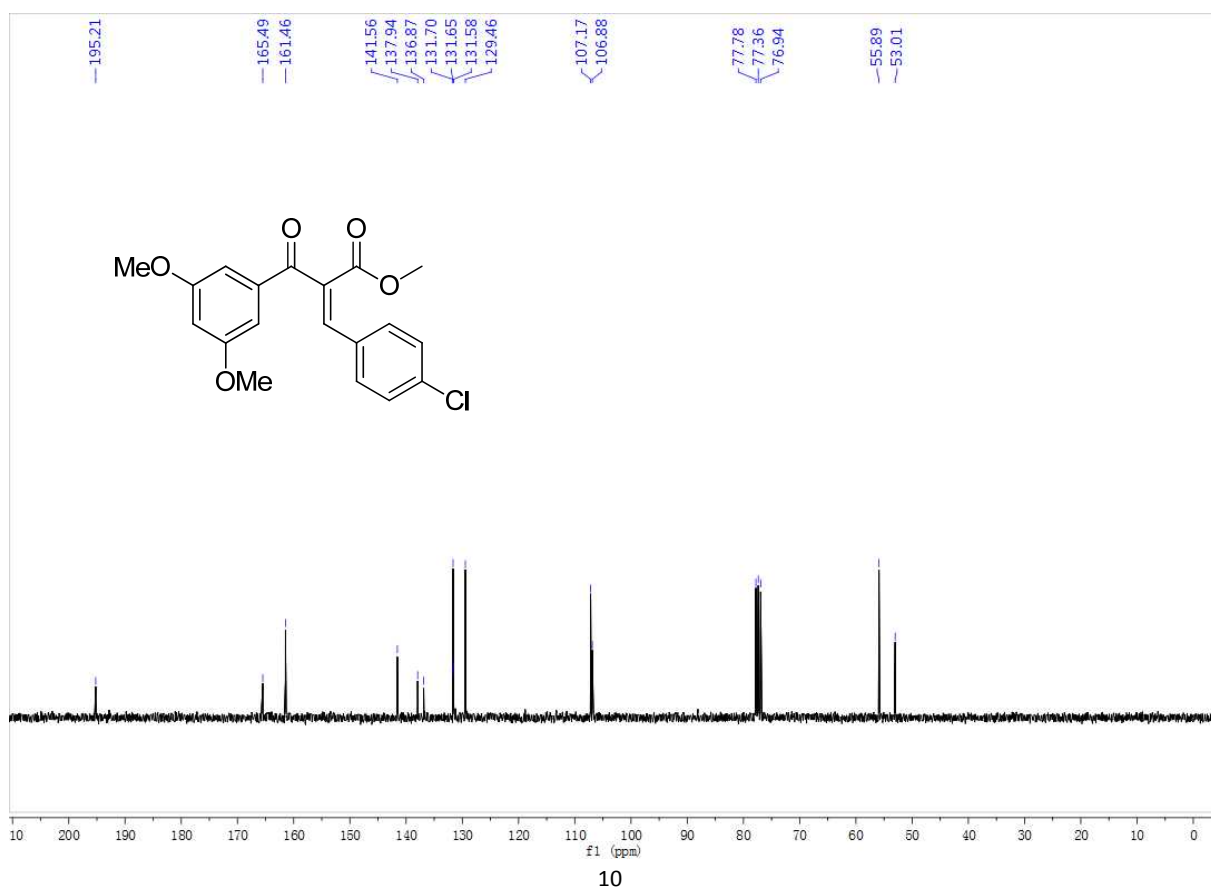


Compound 1j

¹H NMR

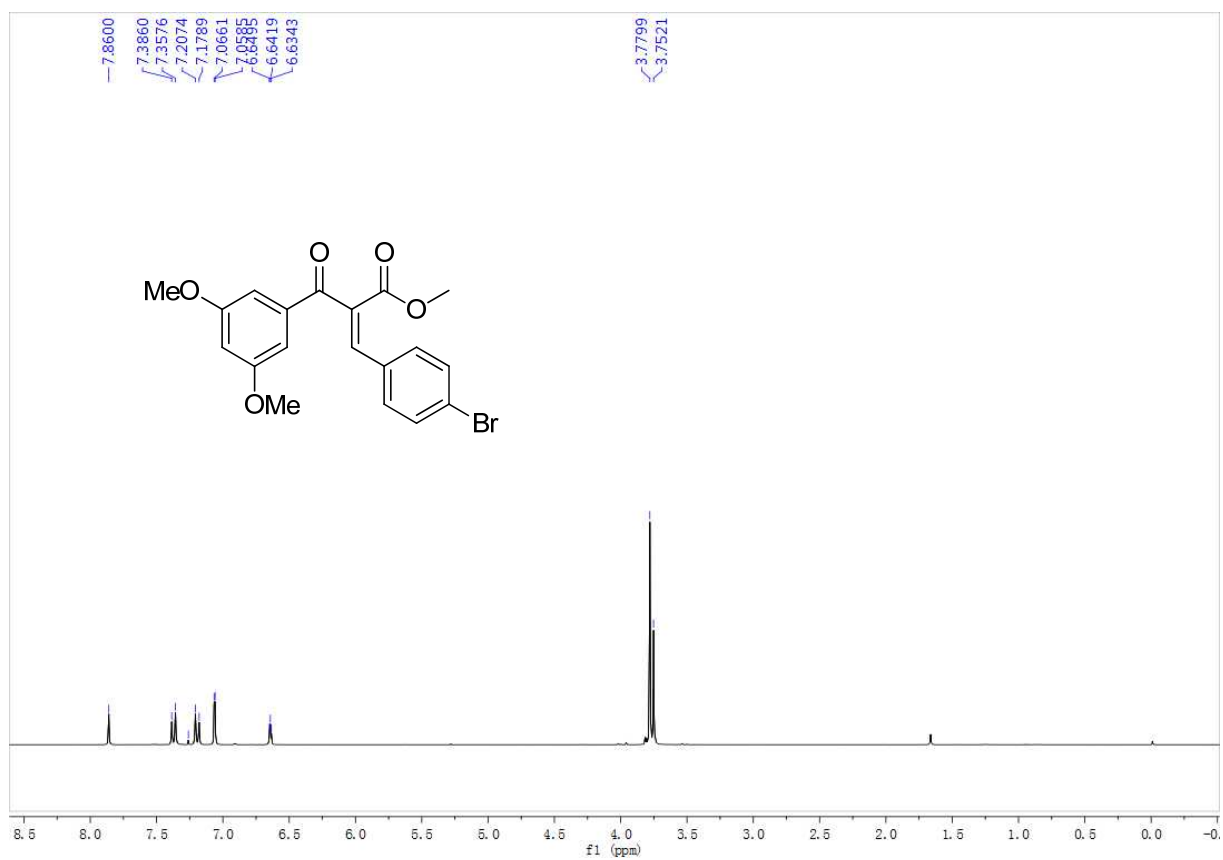


¹³C NMR

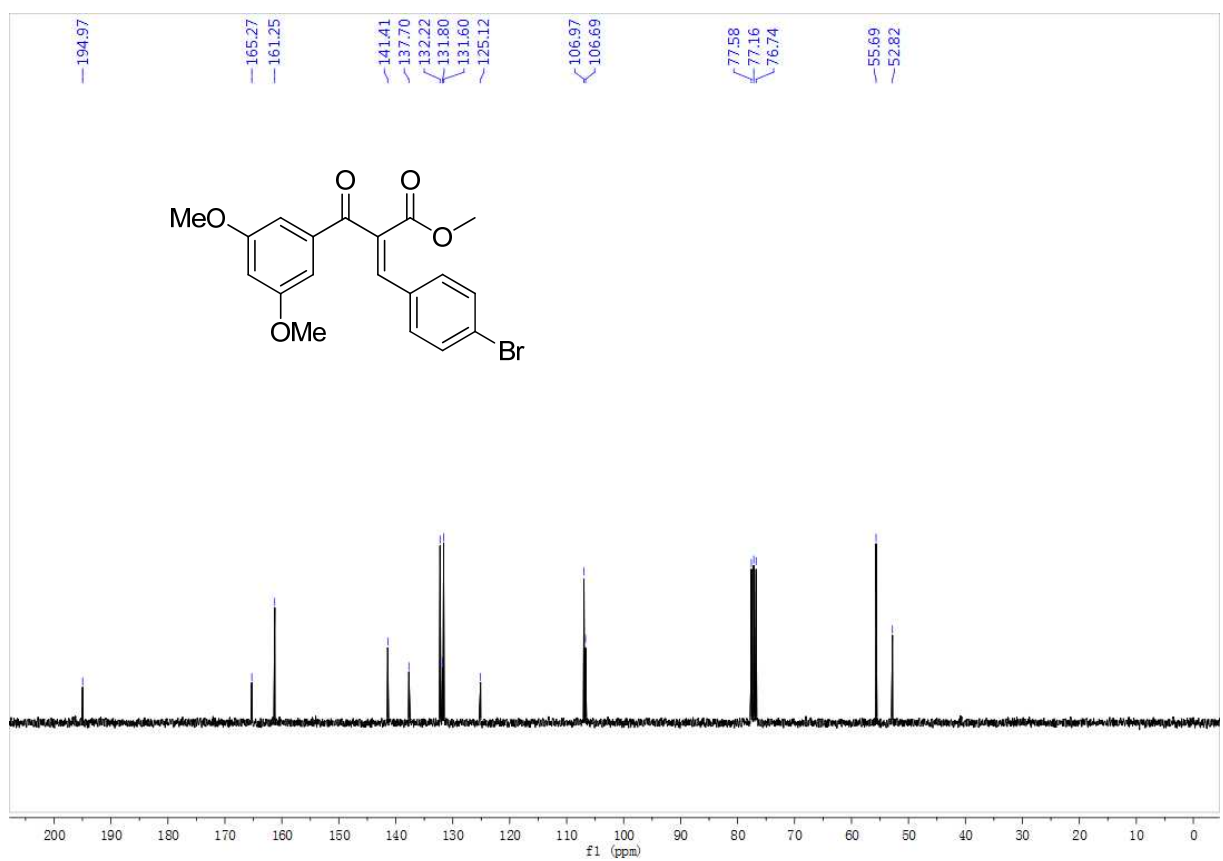


Compound **1k**

^1H NMR

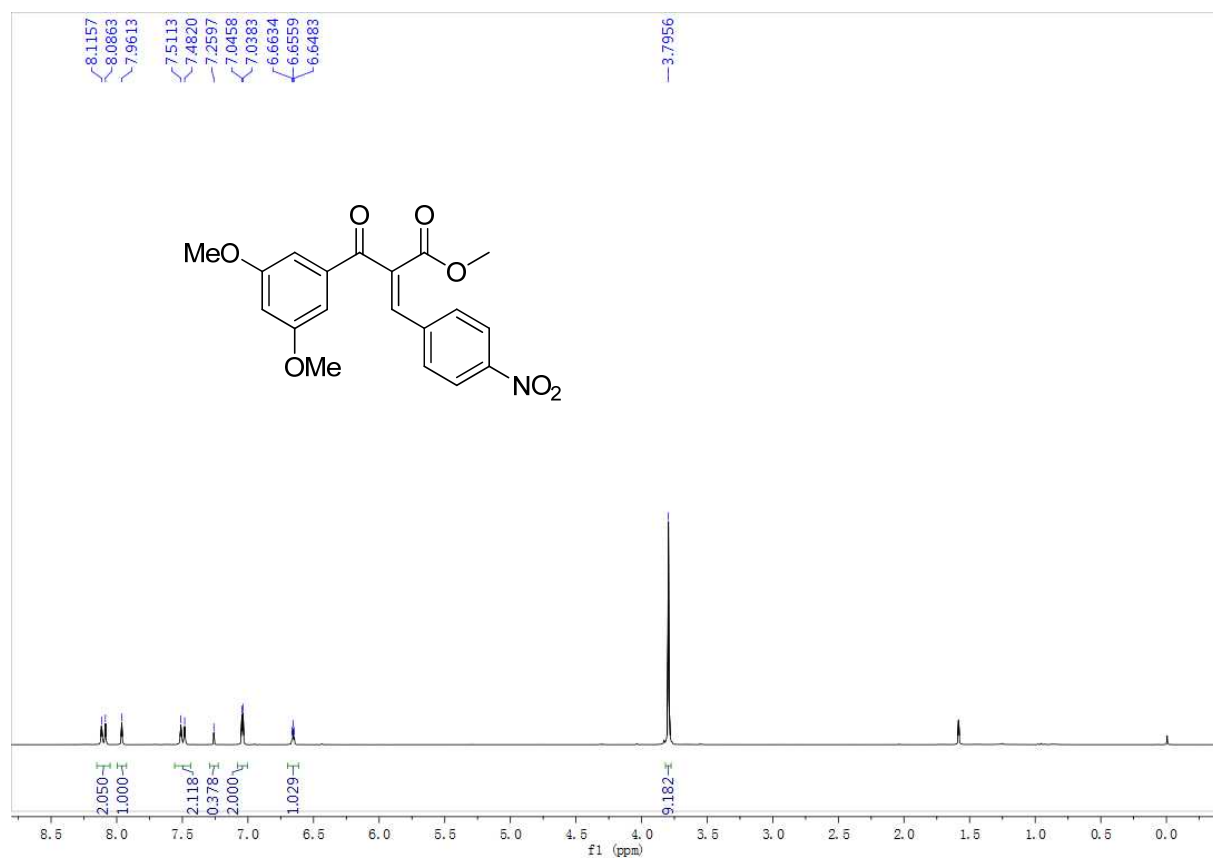


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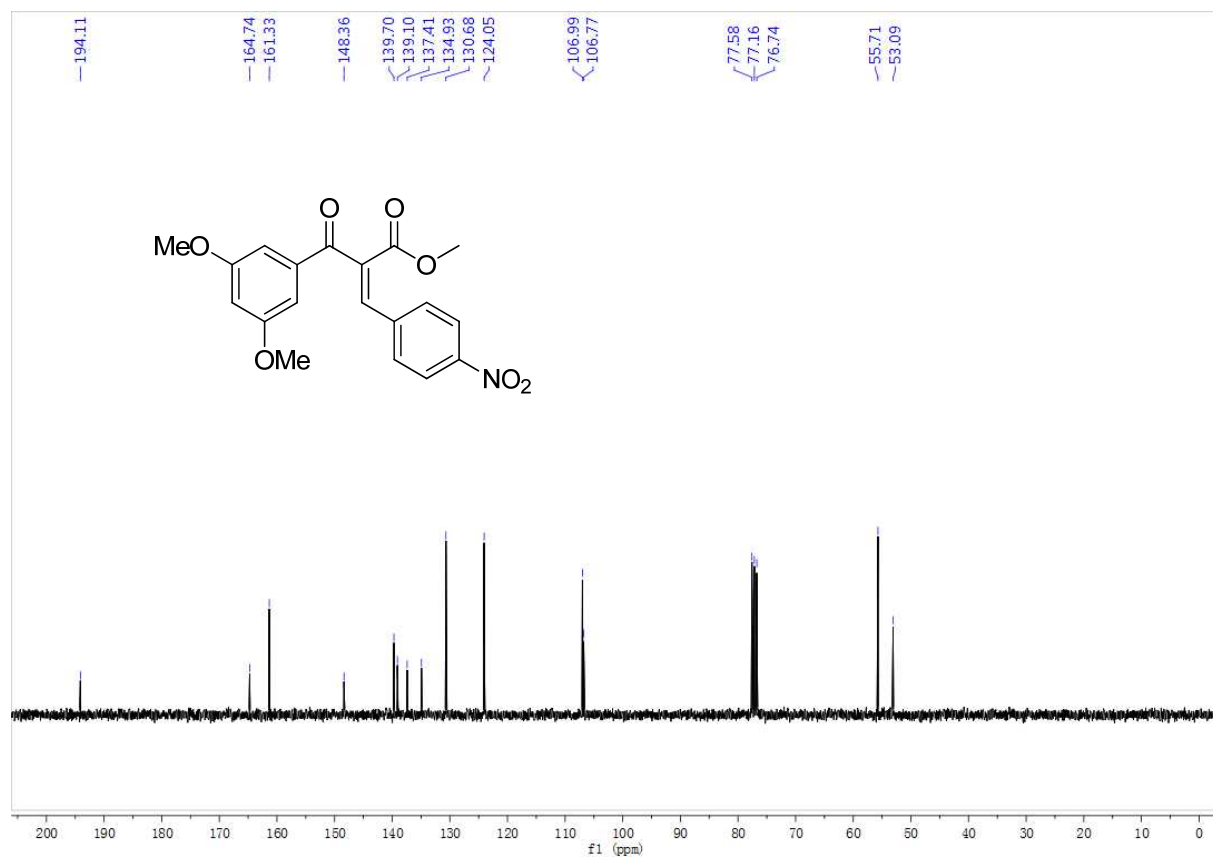


Compound 11

¹H NMR

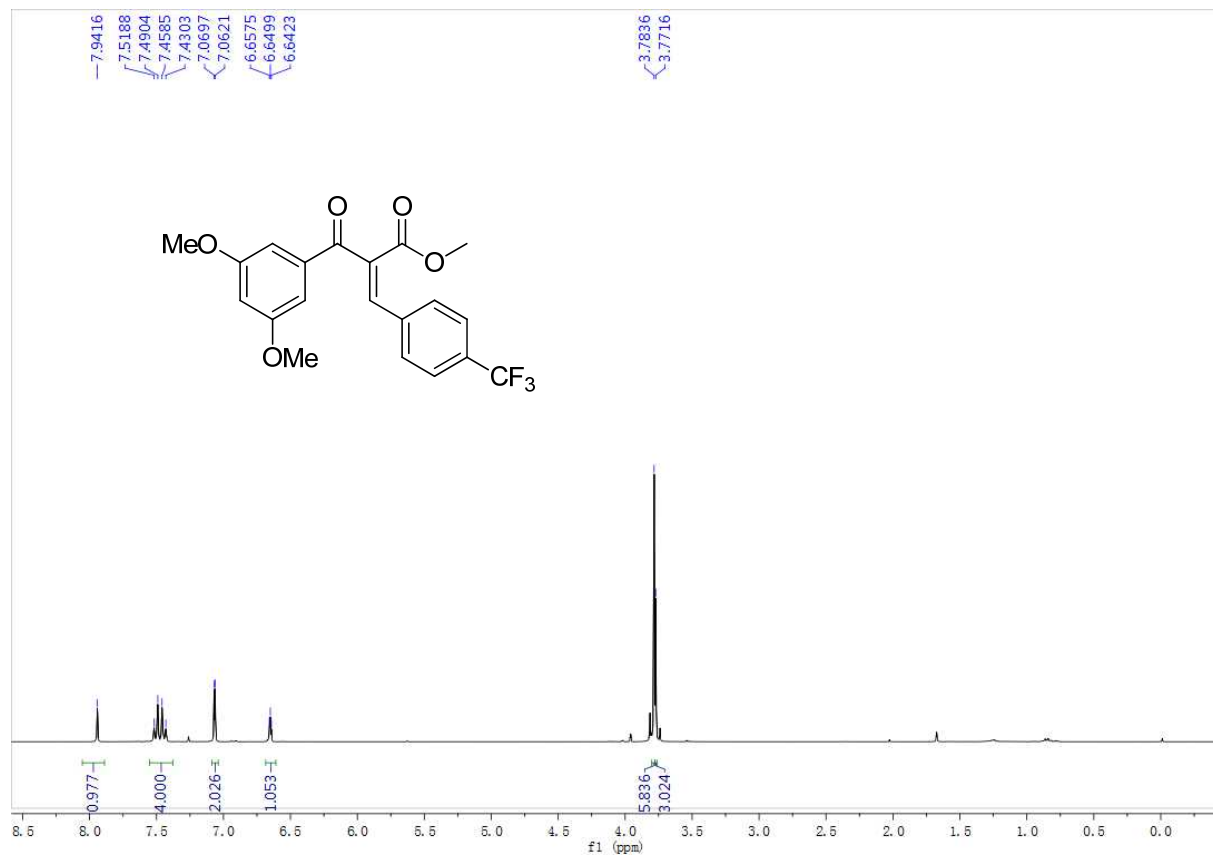


¹³C NMR

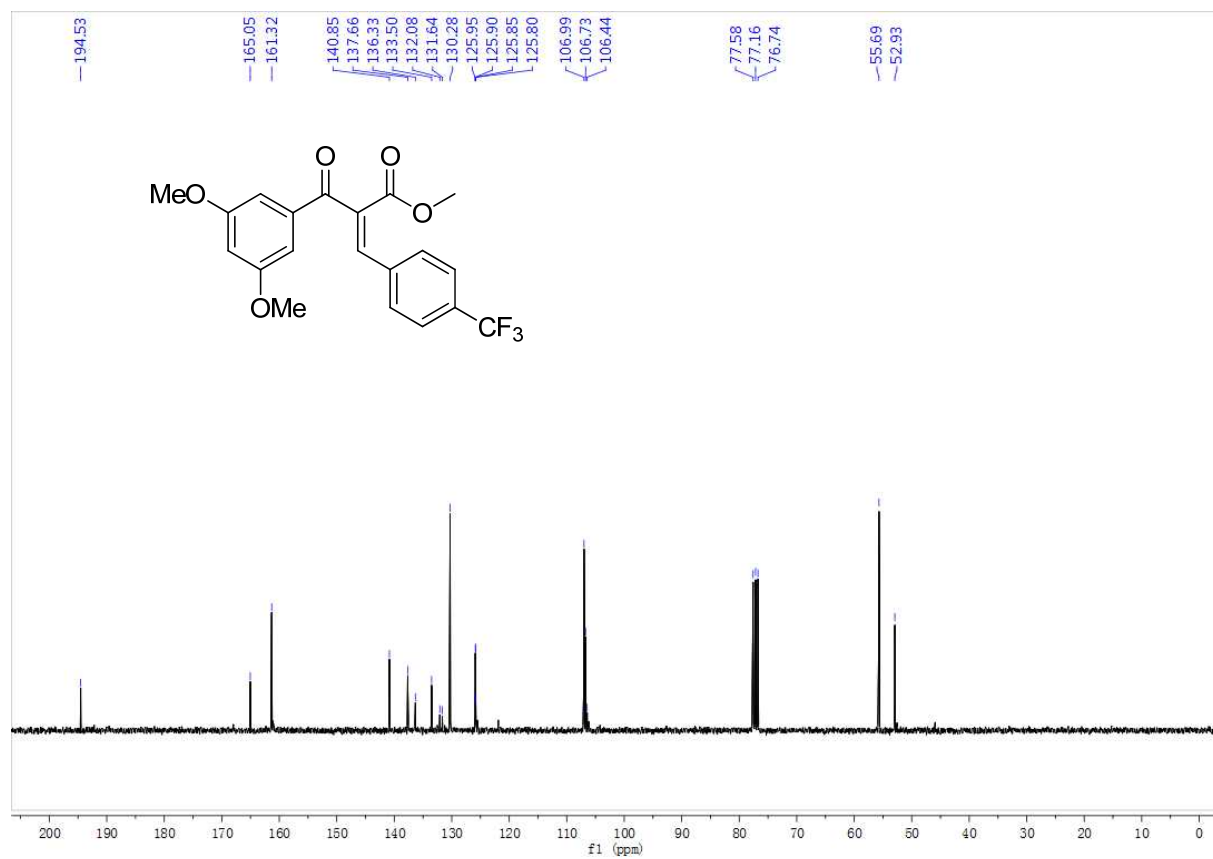


Compound **1m**

^1H NMR

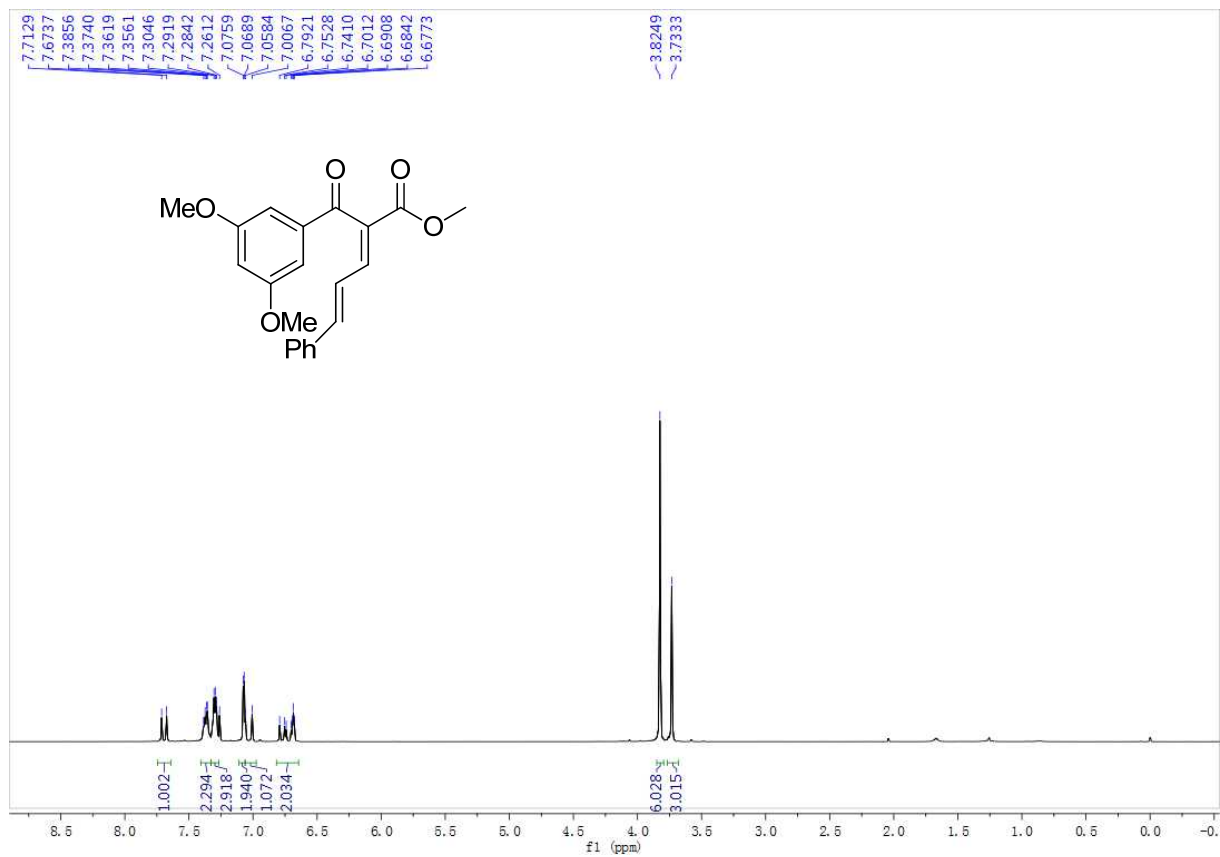


^{13}C NMR

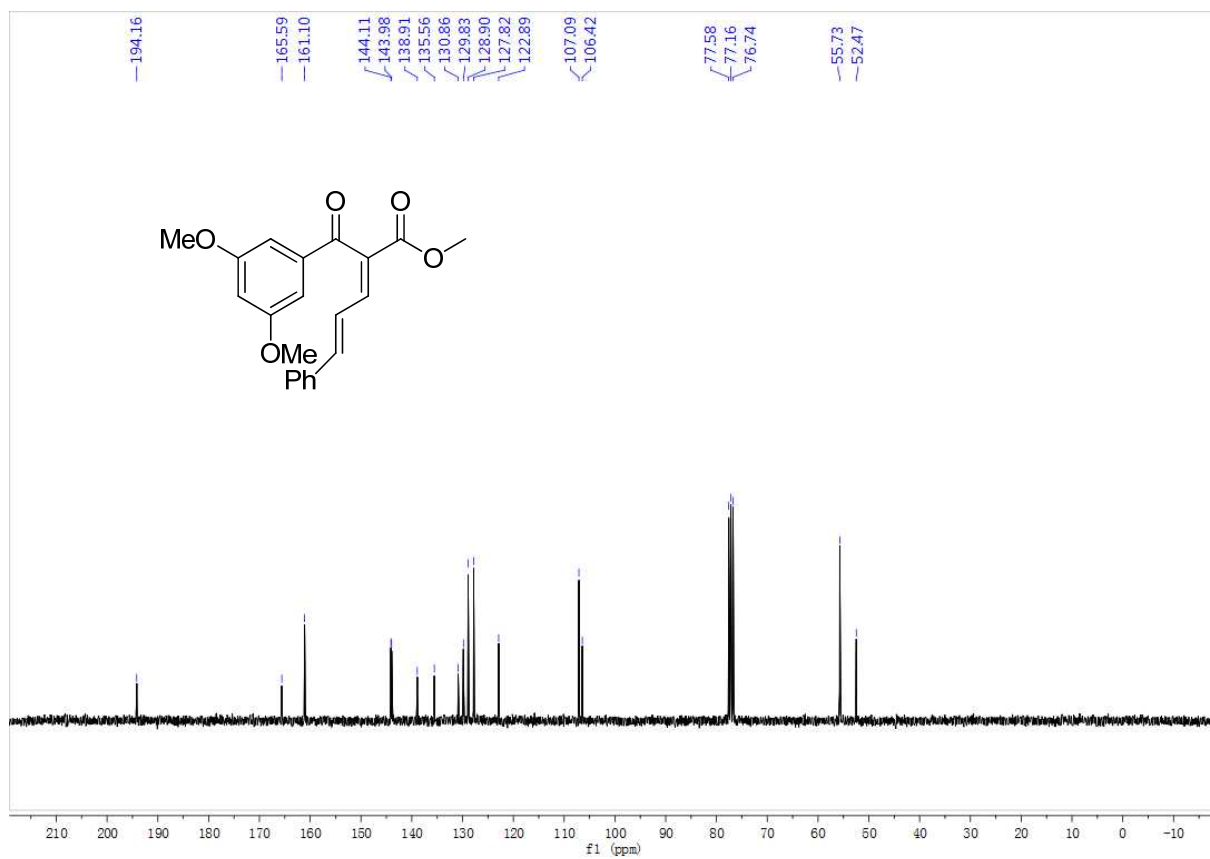


Compound **1n**

^1H NMR

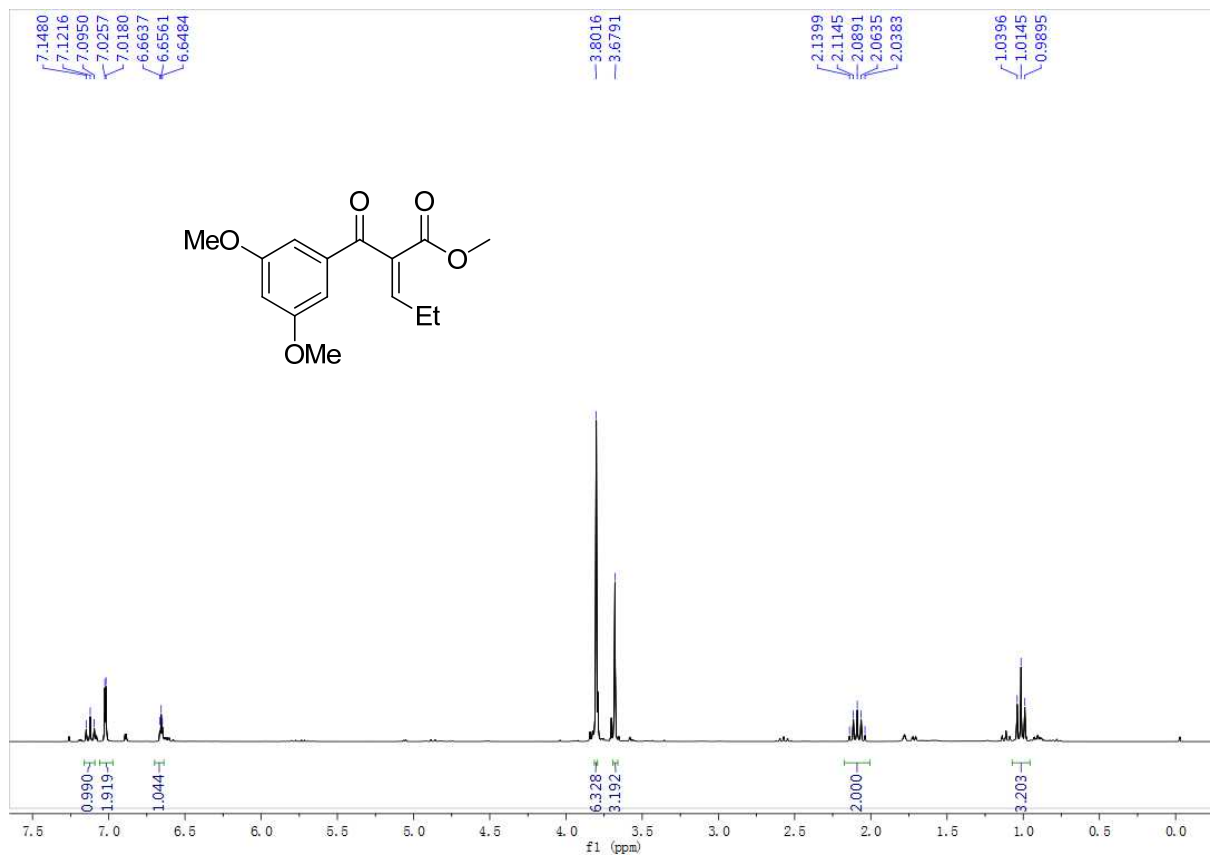


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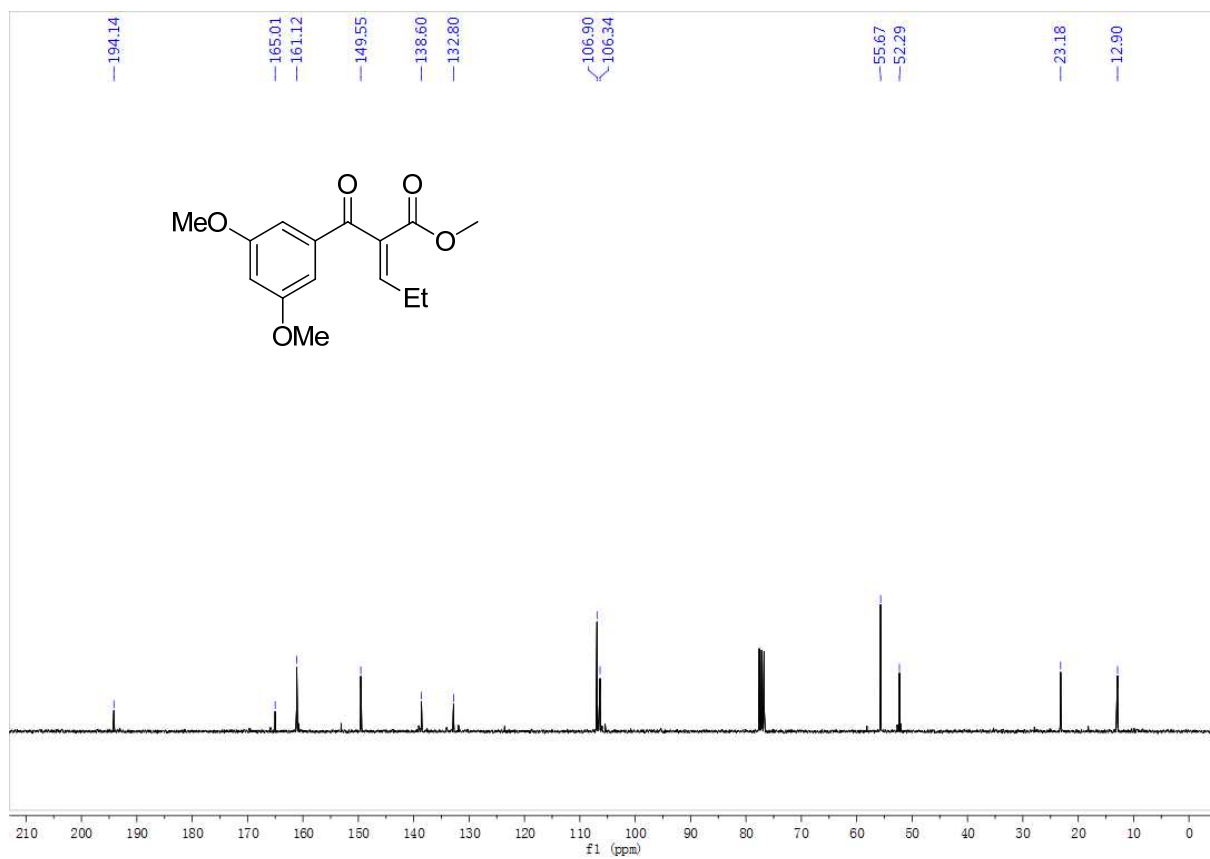


Compound **1o**

^1H NMR

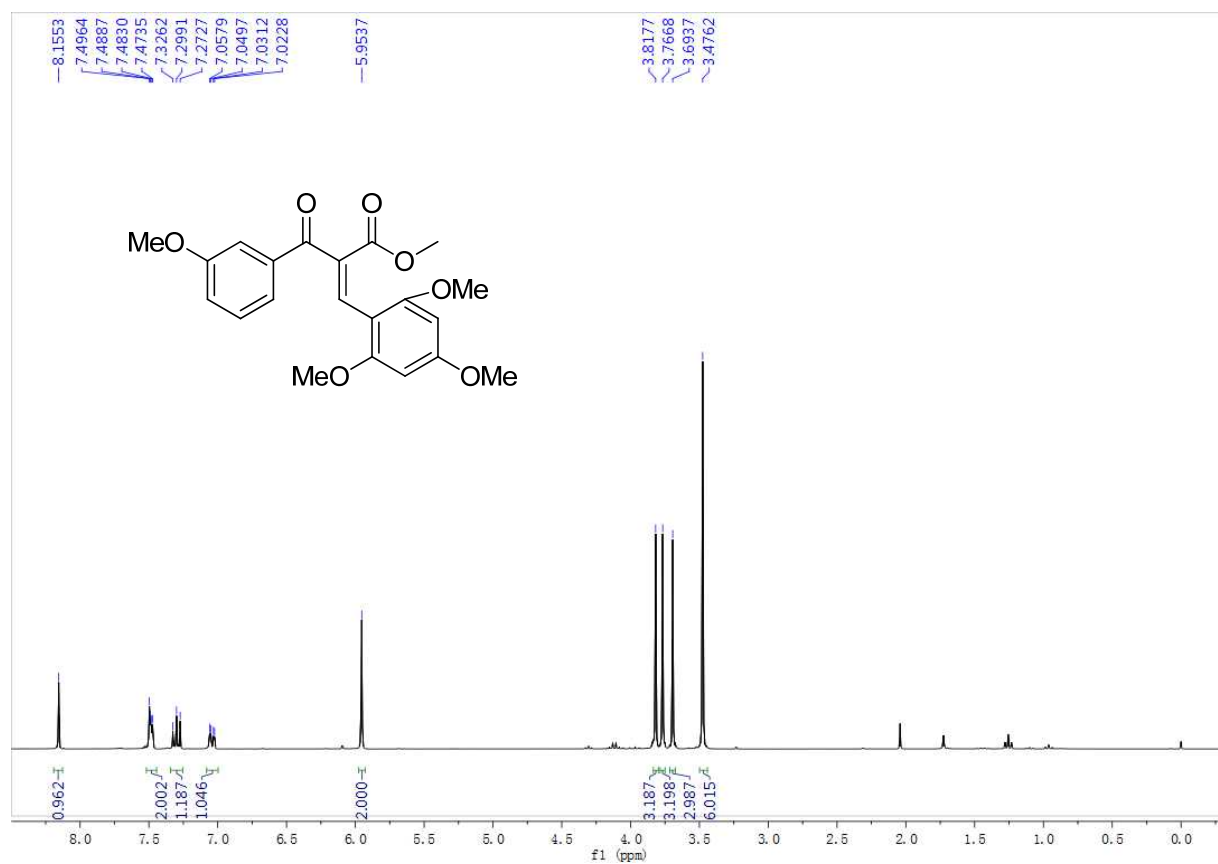


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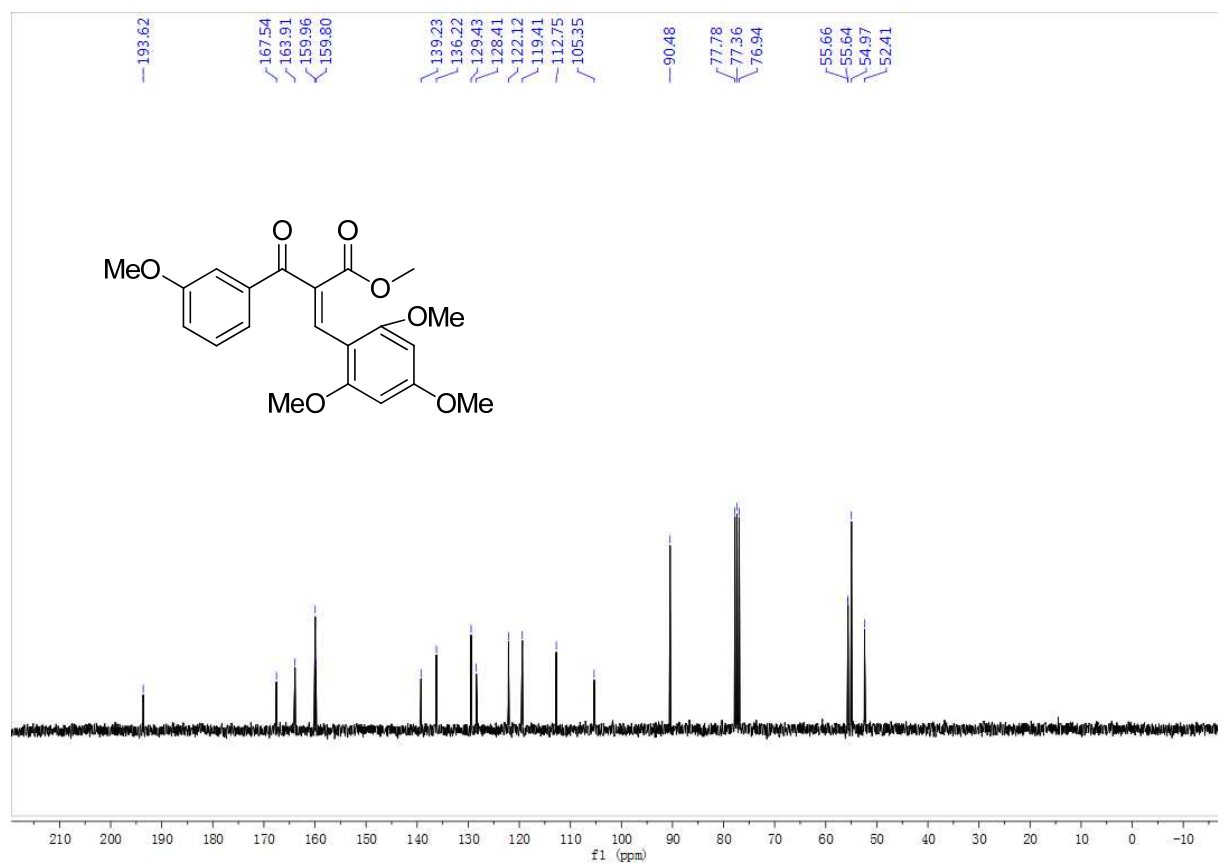


Compound **1p**

^1H NMR

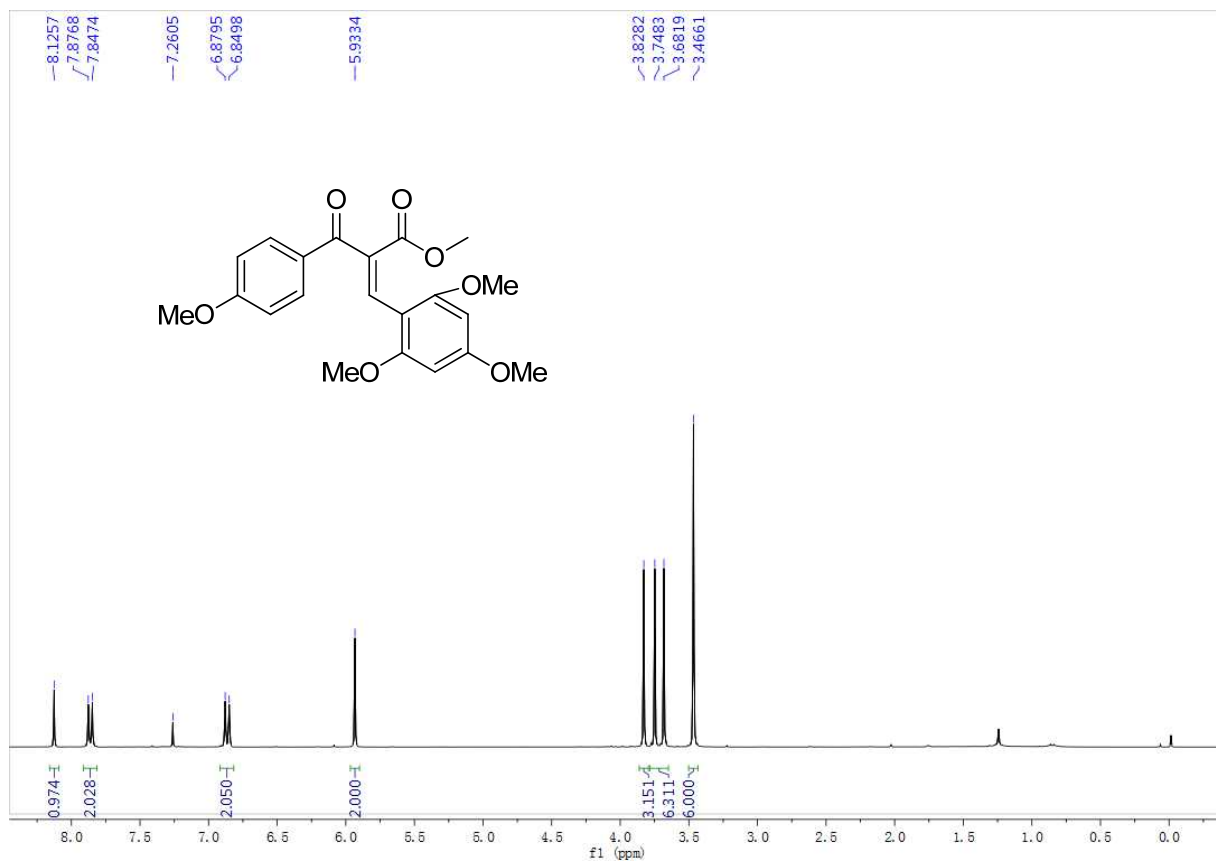


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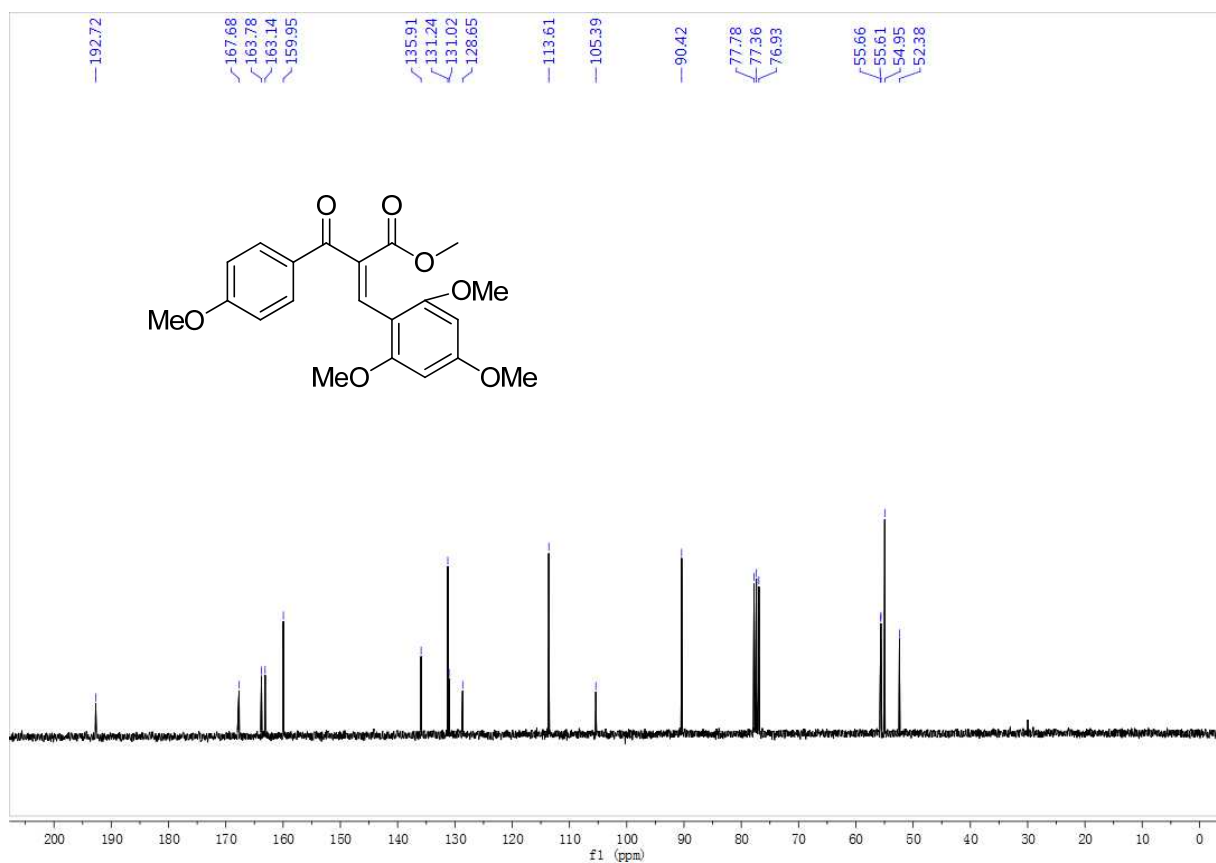


Compound **1q**

^1H NMR

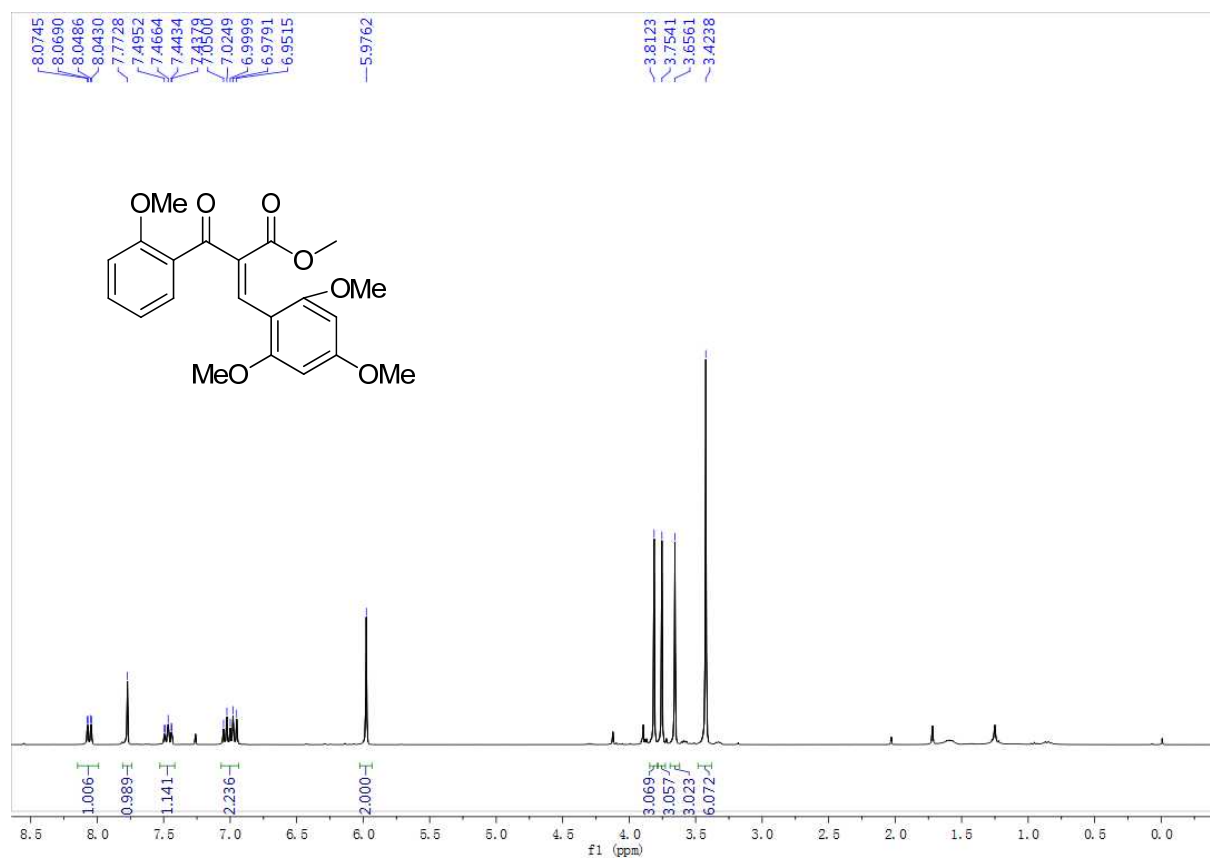


^{13}C NMR

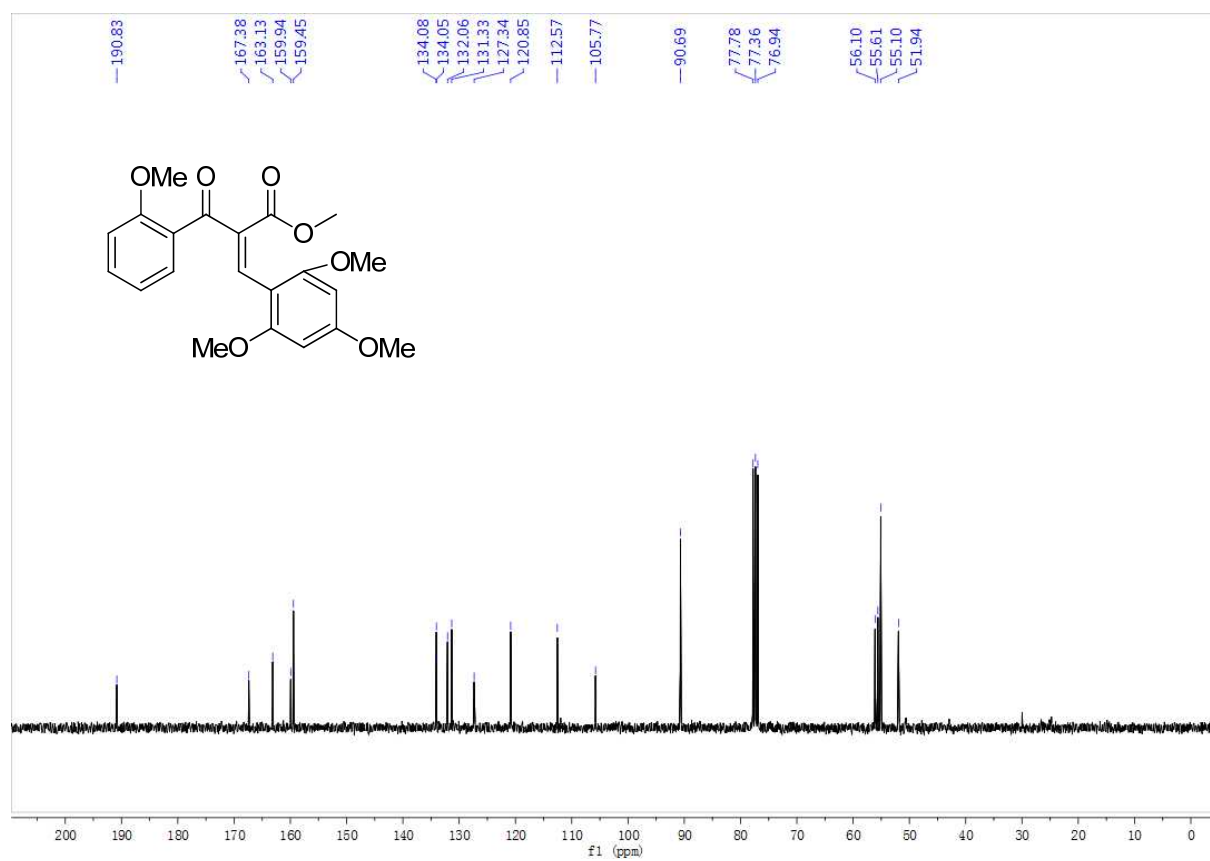


Compound 1r

¹H NMR

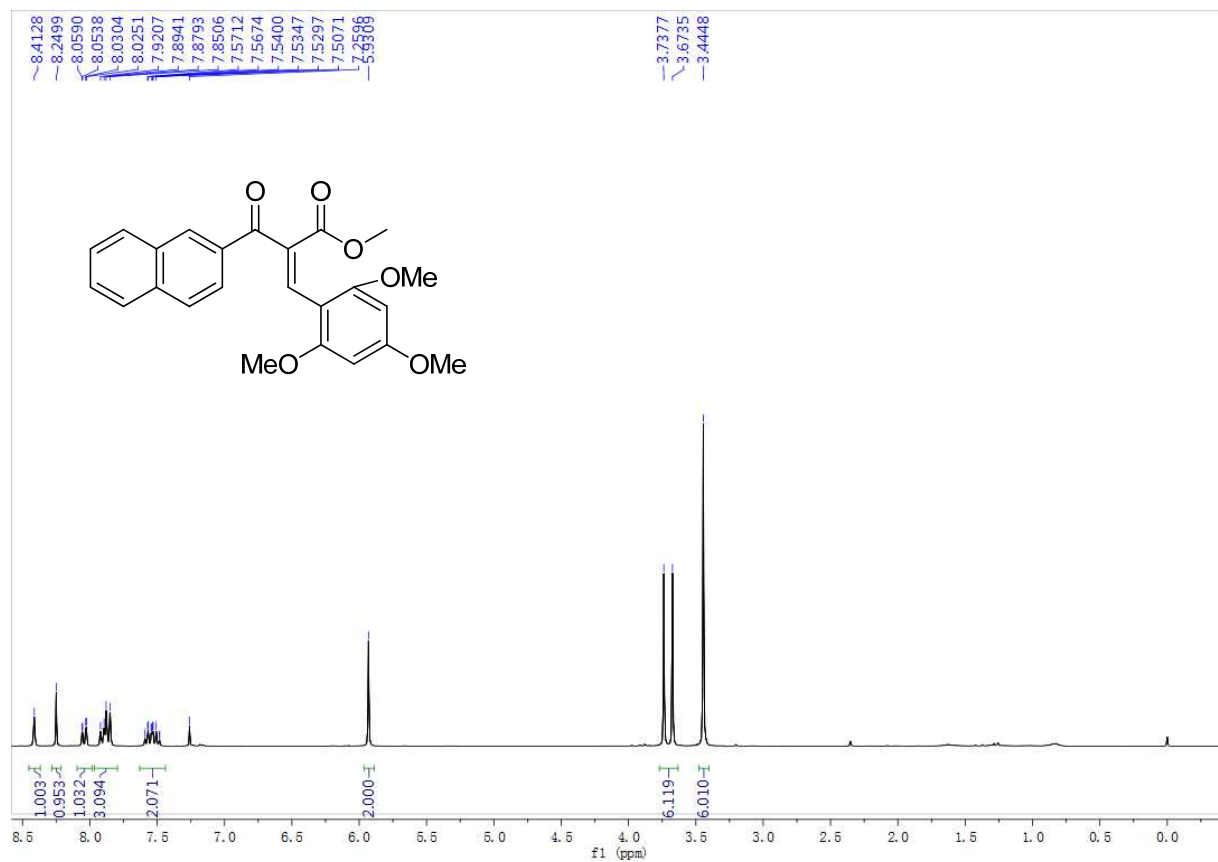


¹³C NMR

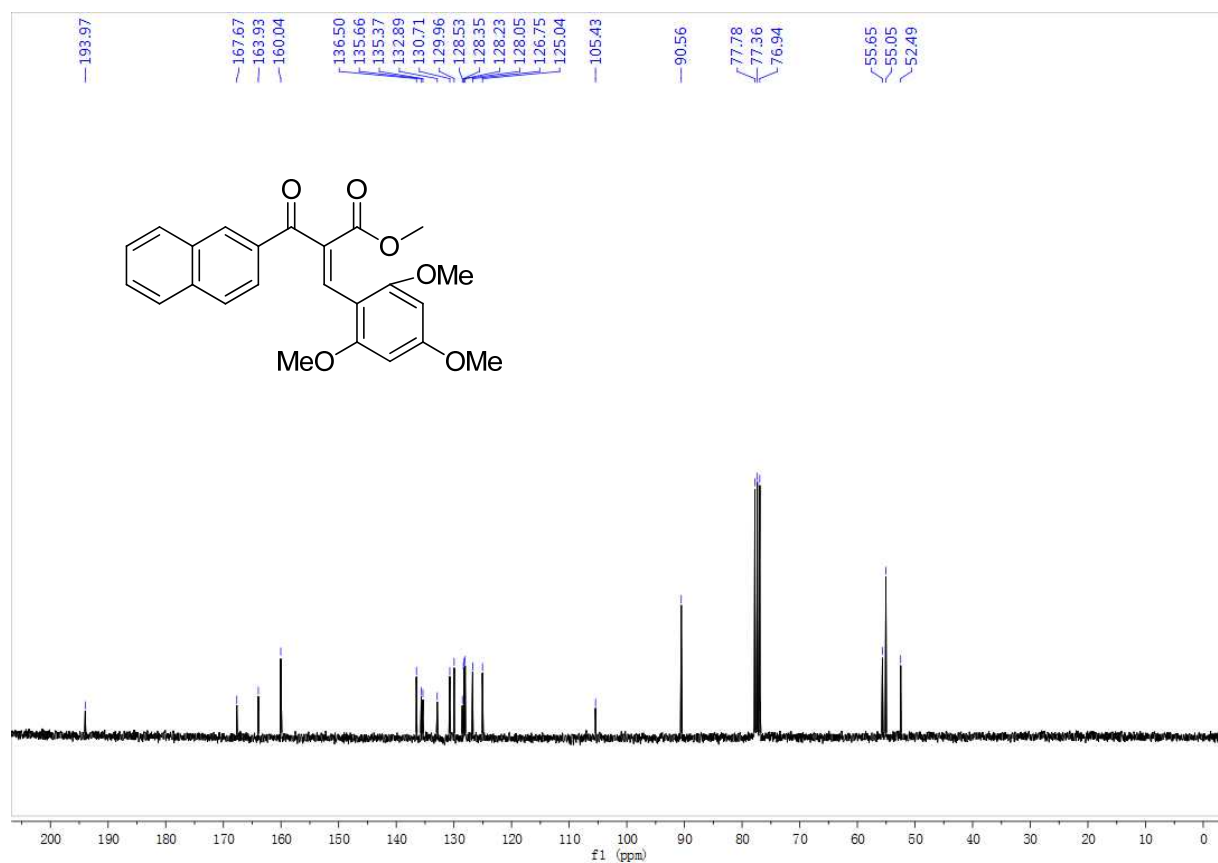


Compound 1s

¹H NMR

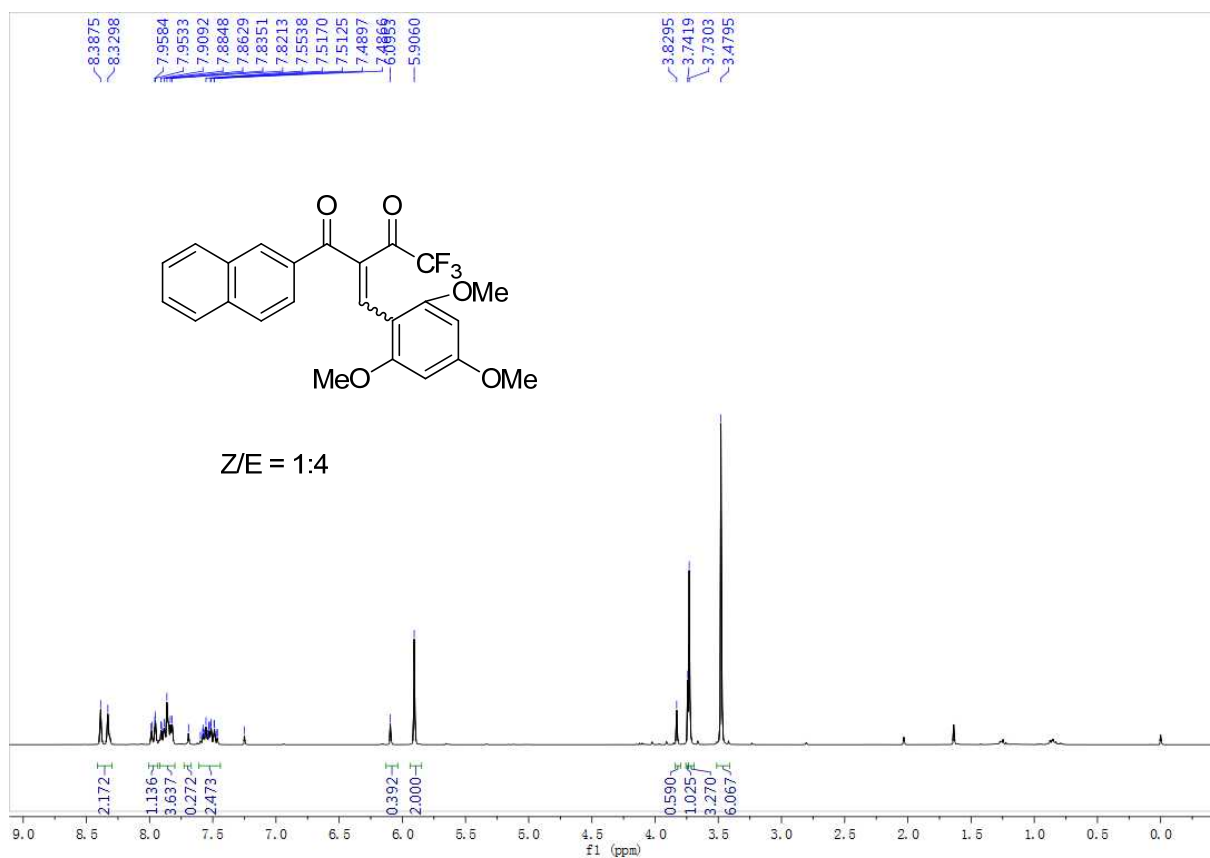


¹³C NMR

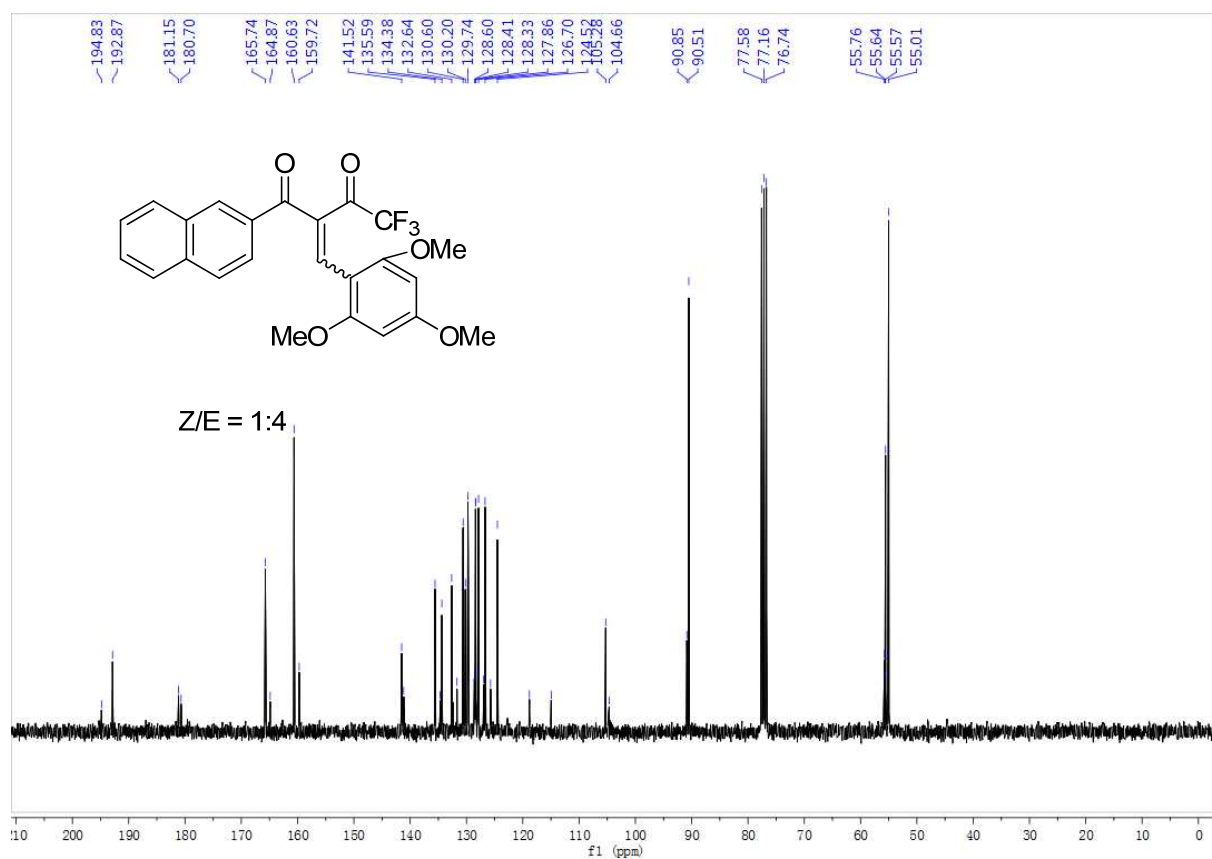


Compound **1t**

^1H NMR

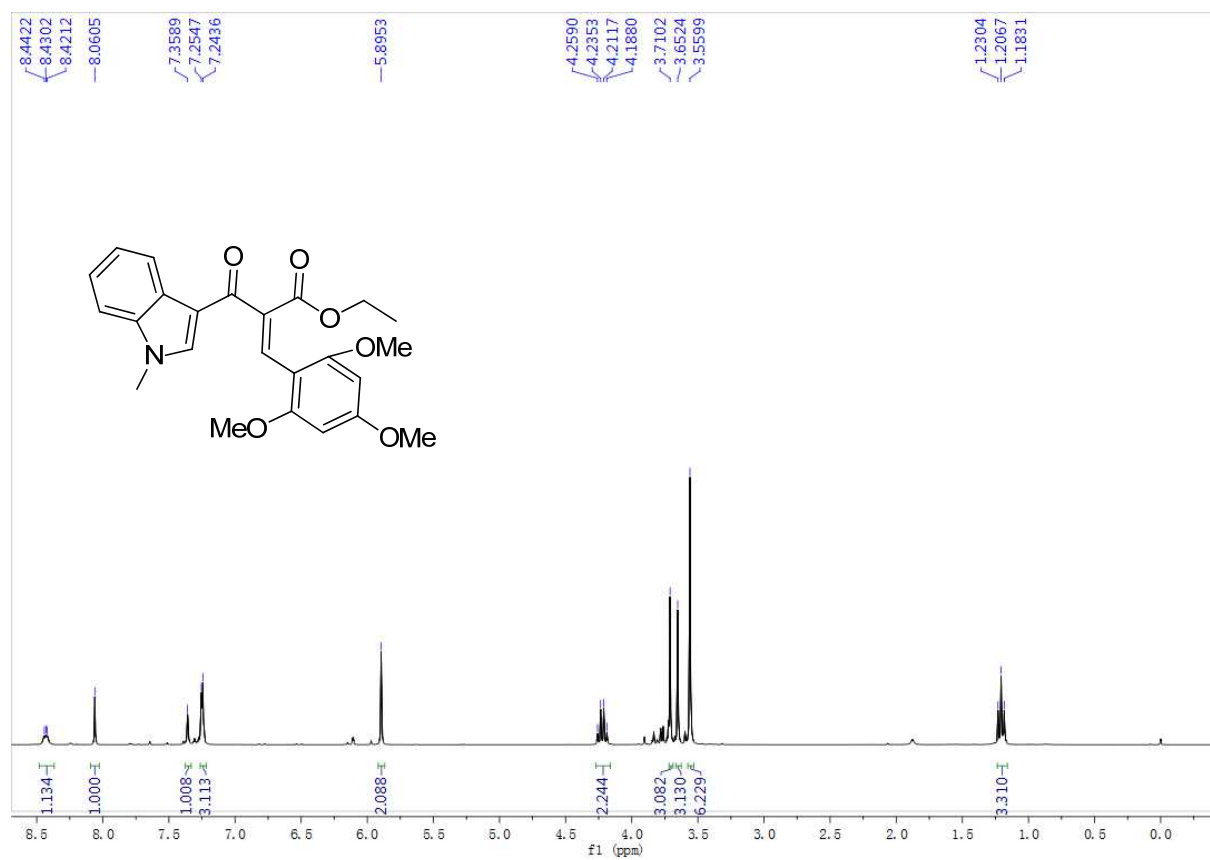


^{13}C NMR

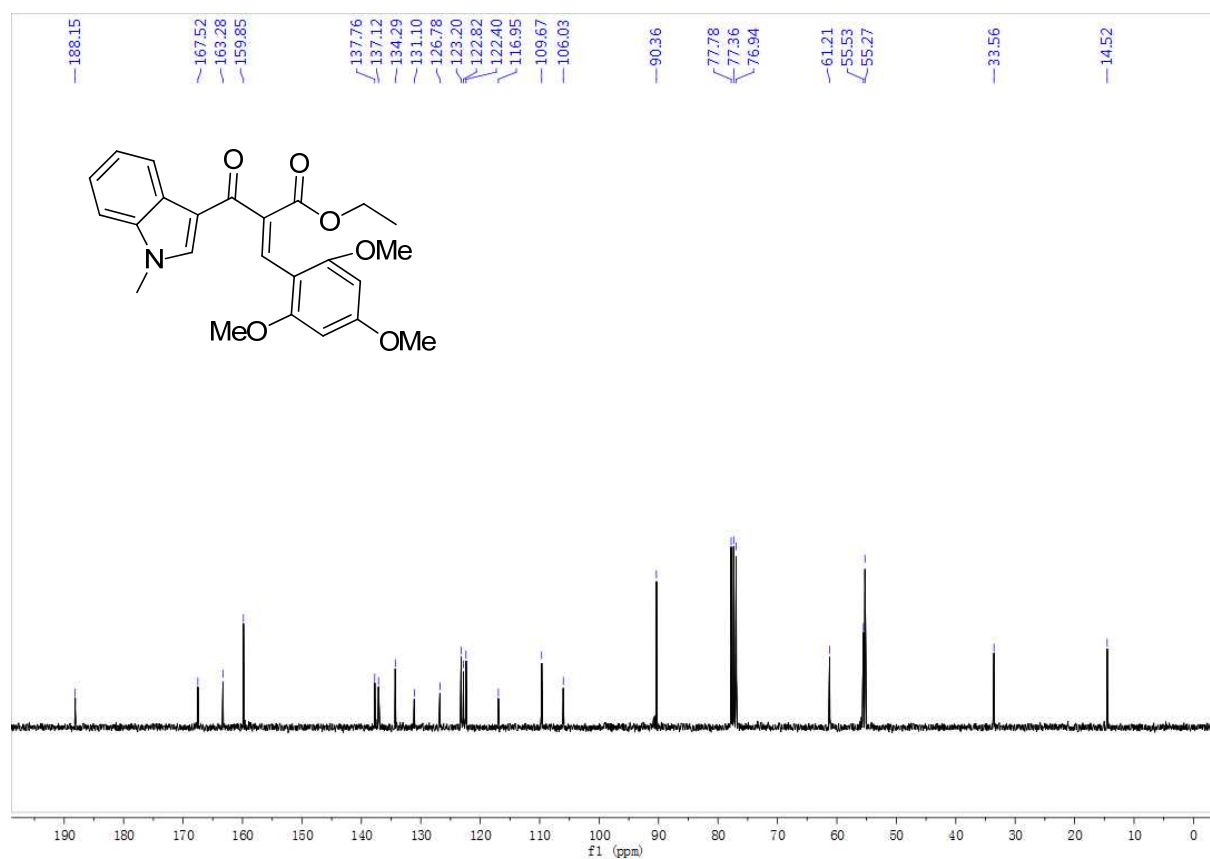


Compound **1u**

^1H NMR

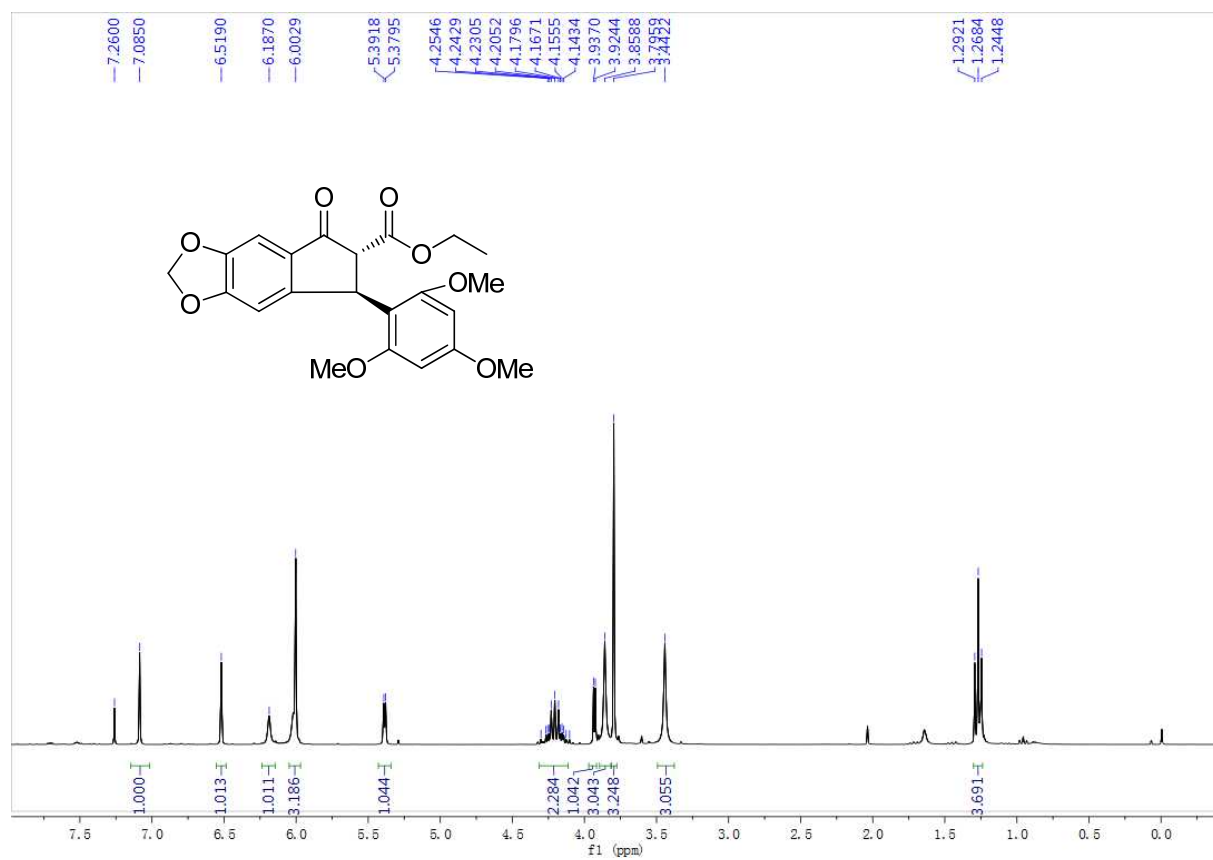


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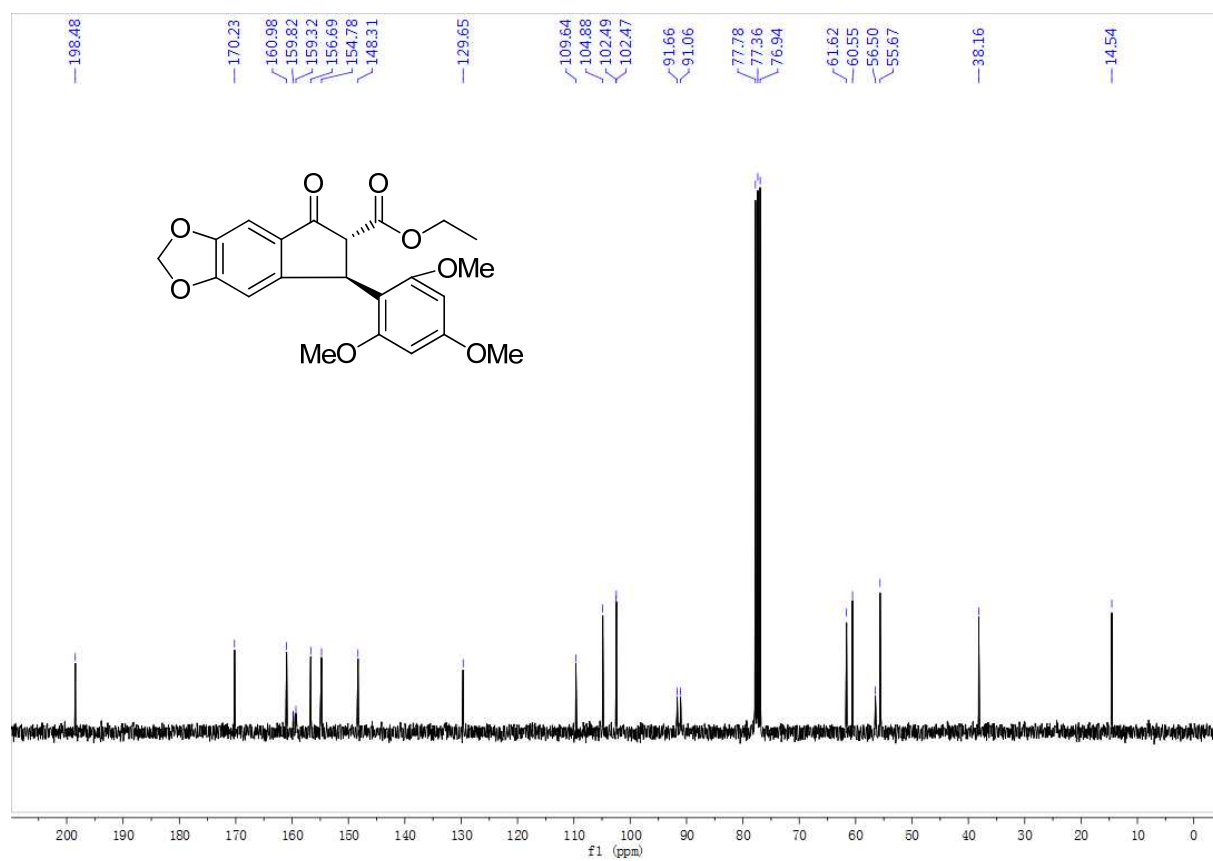


Compound **2b**

^1H NMR

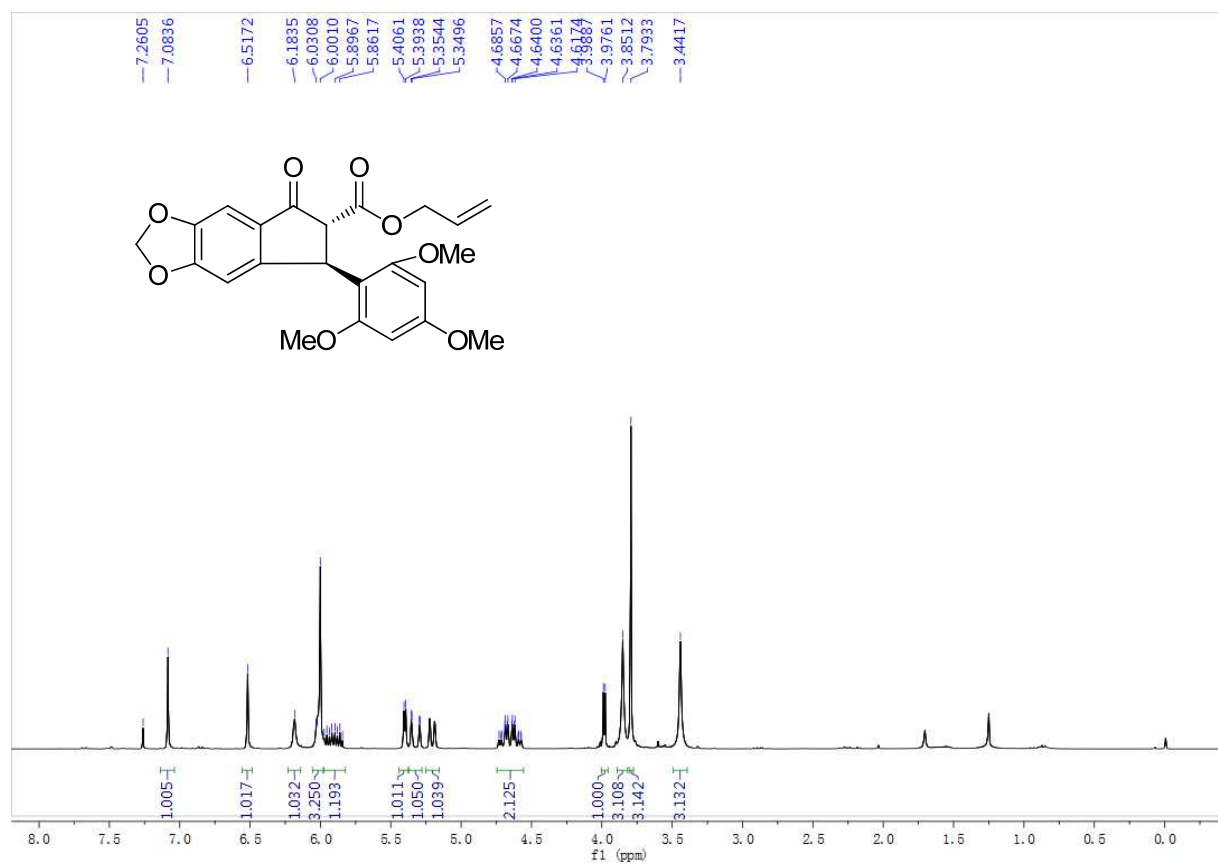


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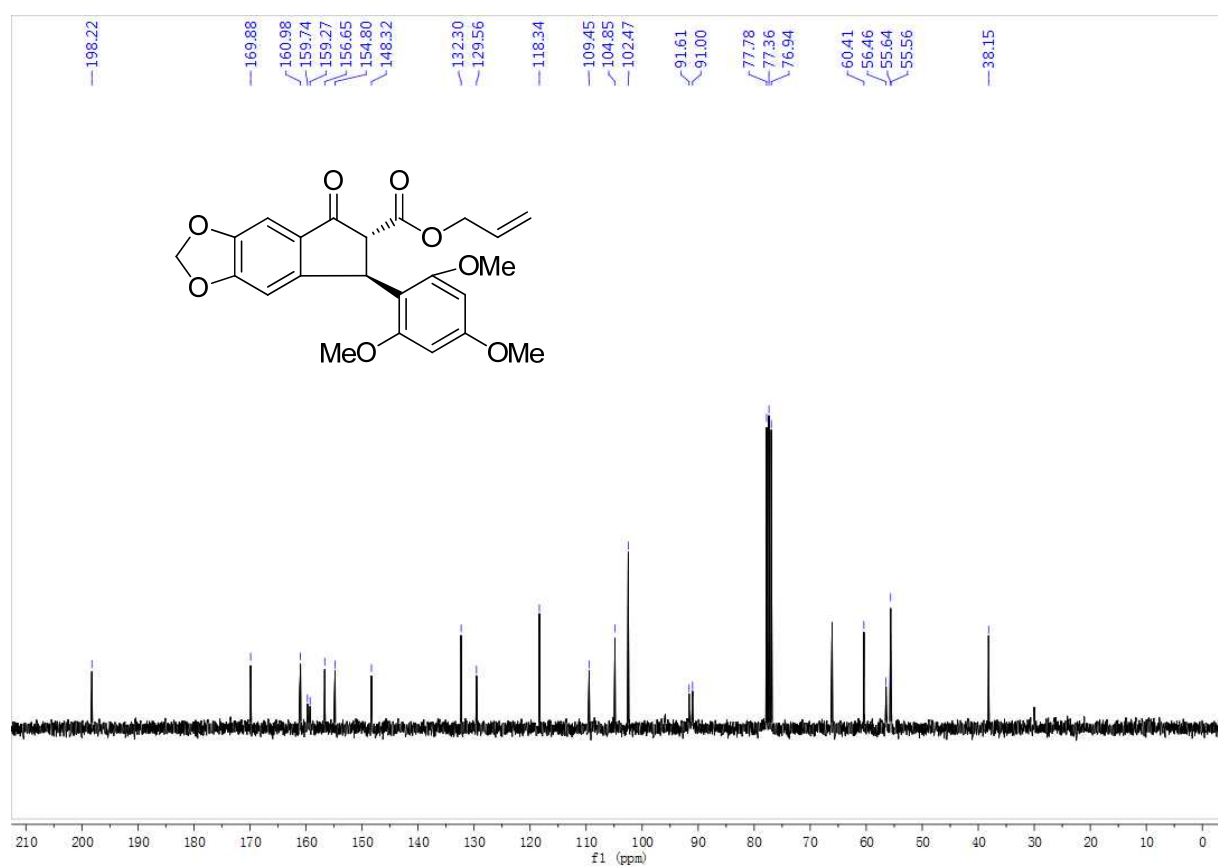


Compound 2c

¹H NMR

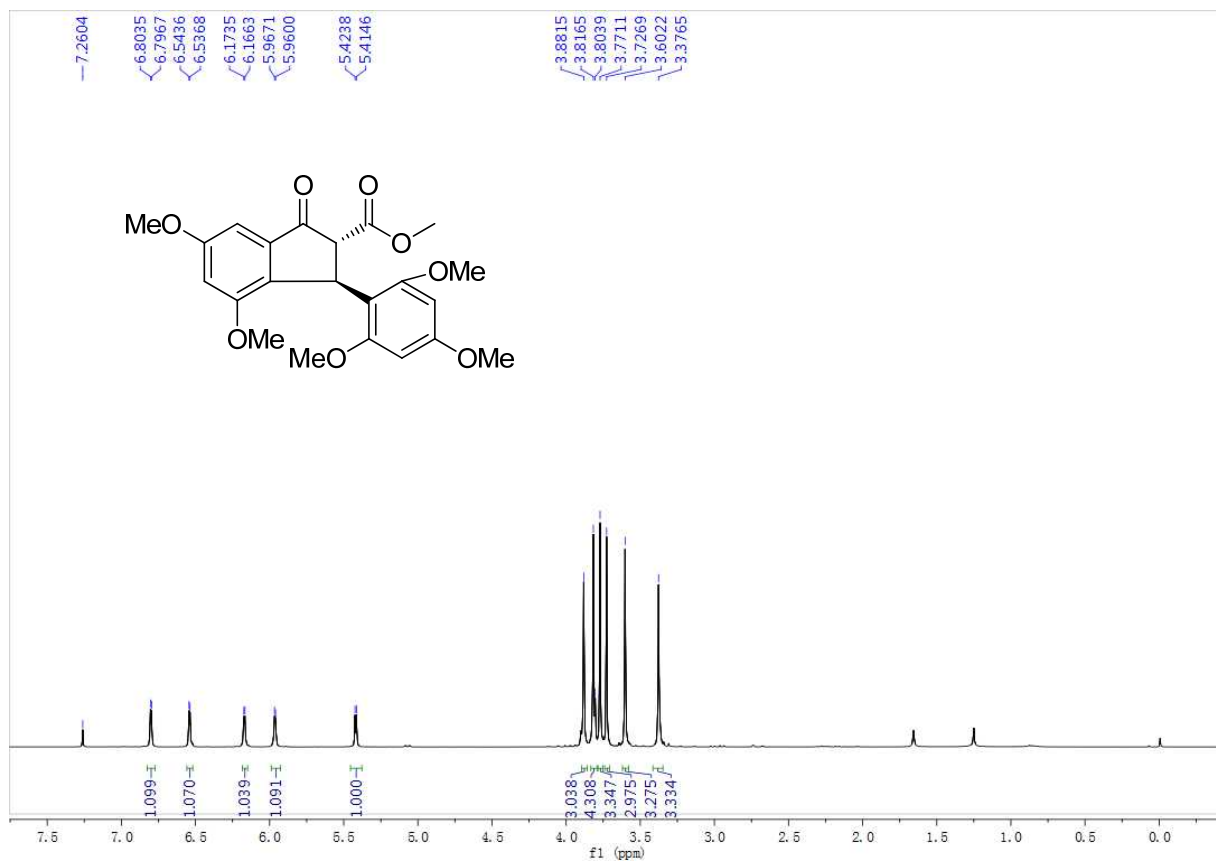


¹³C NMR

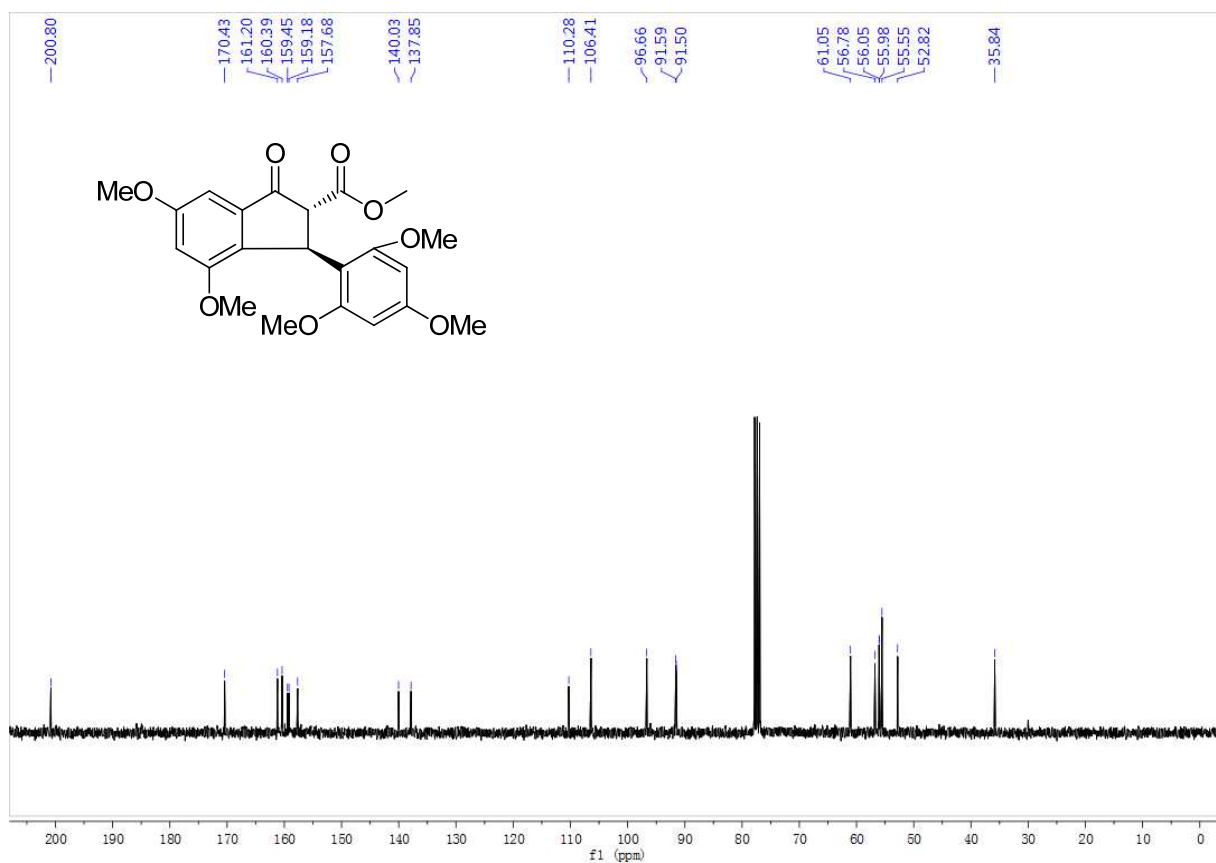


Compound **2d**

^1H NMR

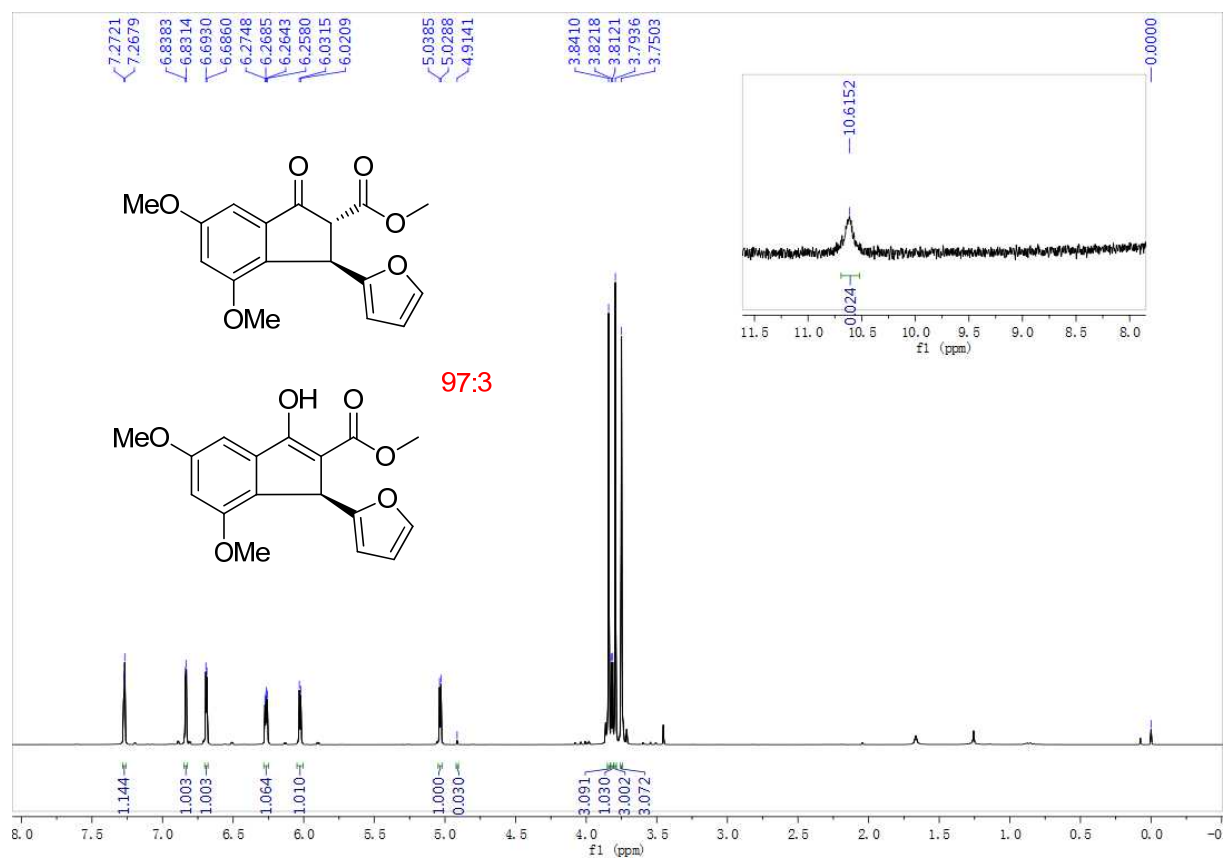


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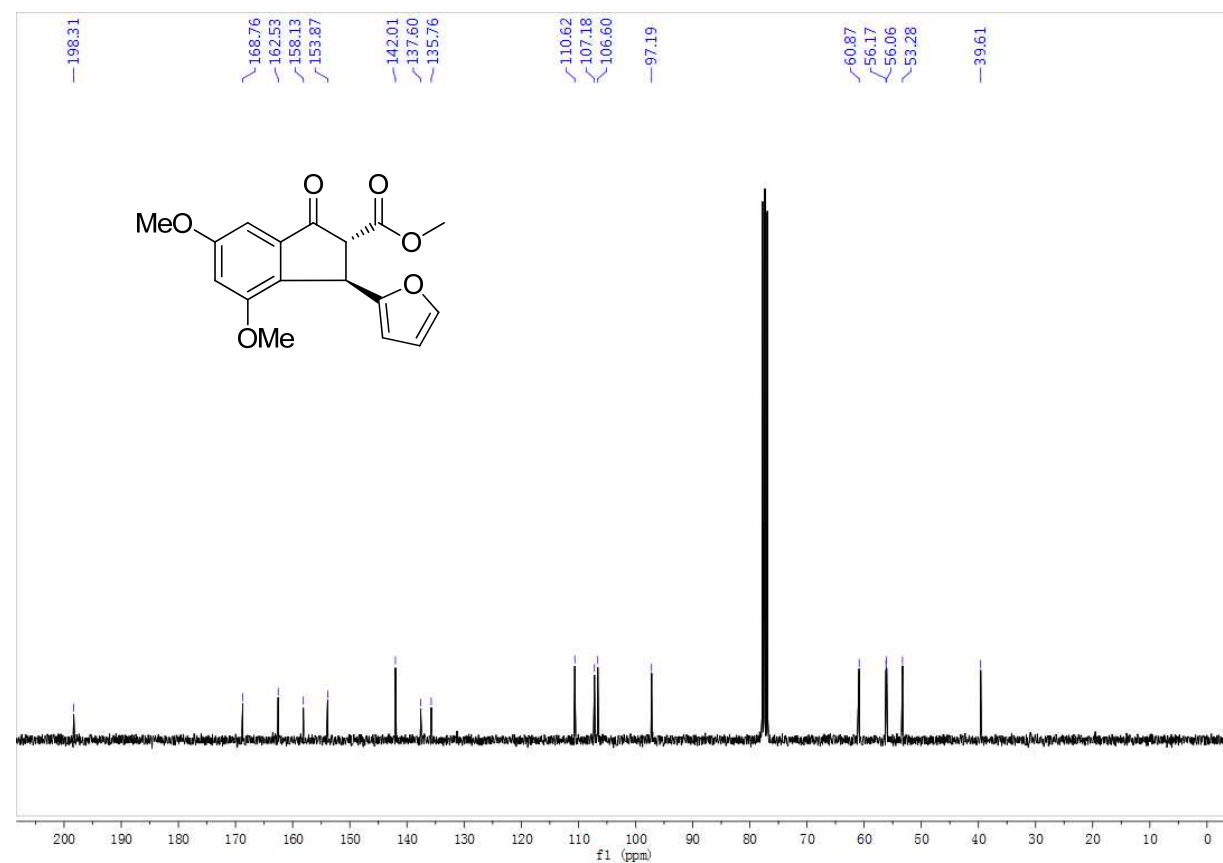


Compound 2e

^1H NMR

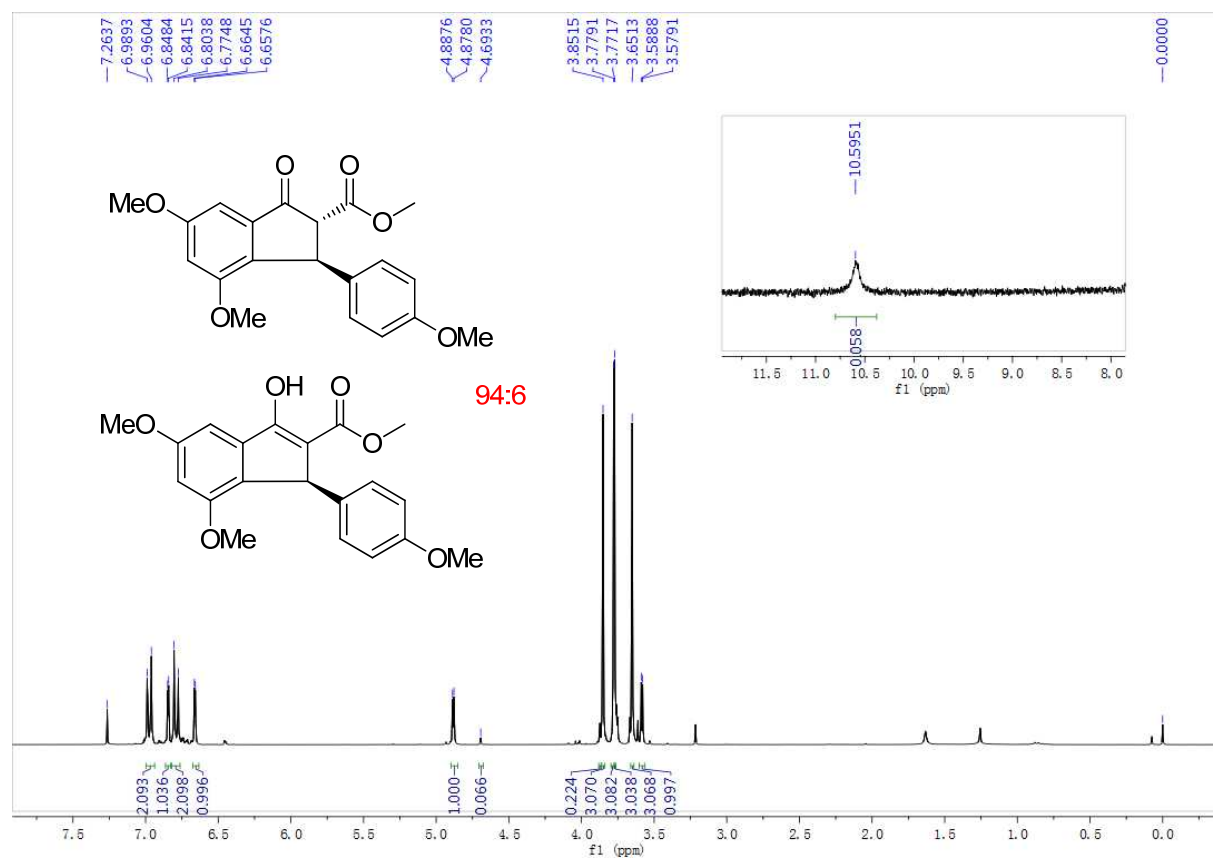


^{13}C NMR

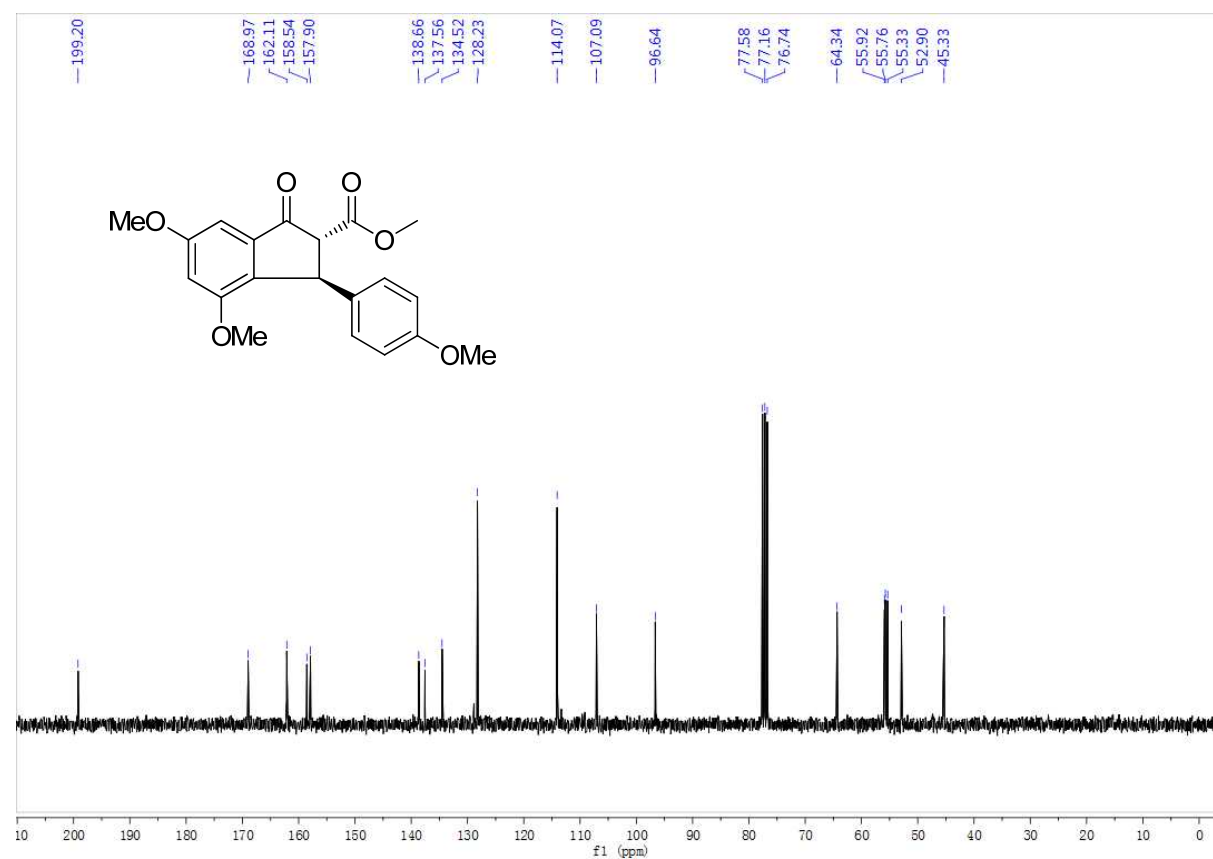


Compound 2f

¹H NMR

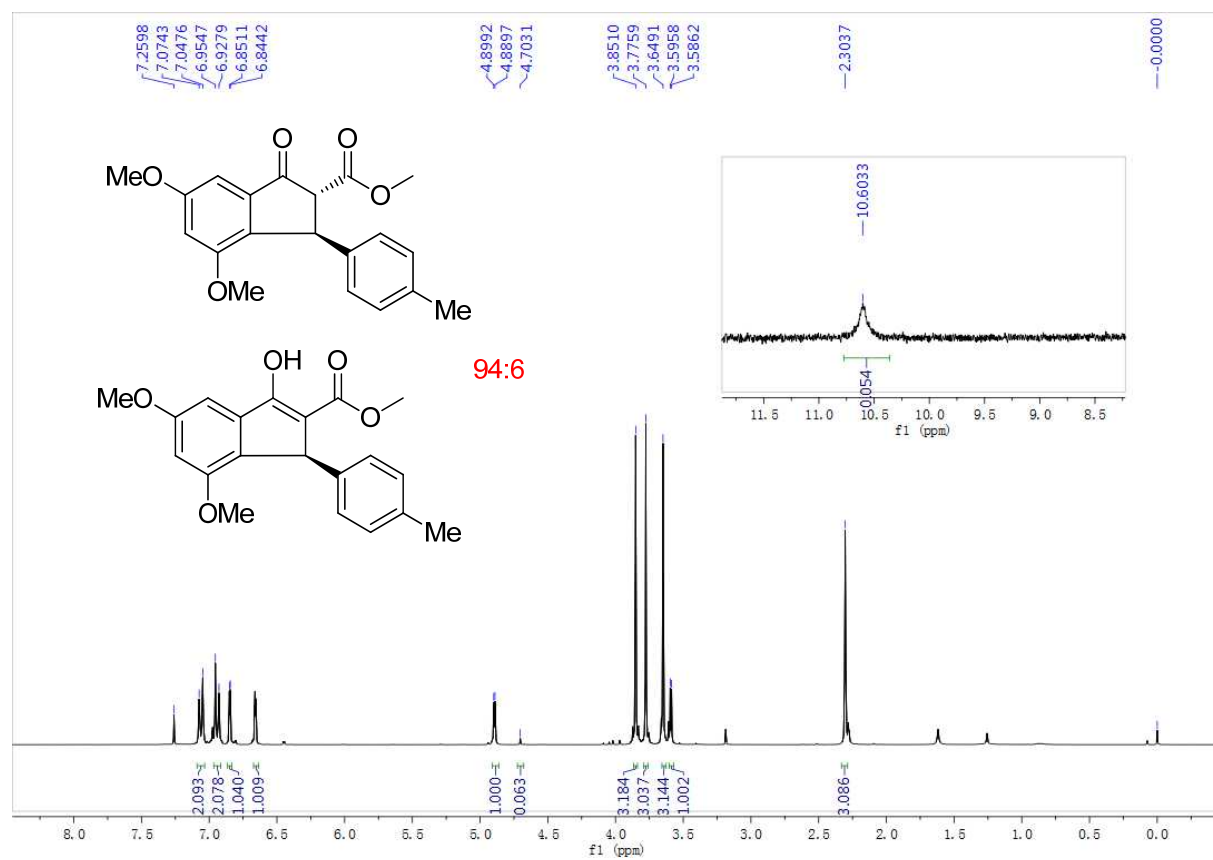


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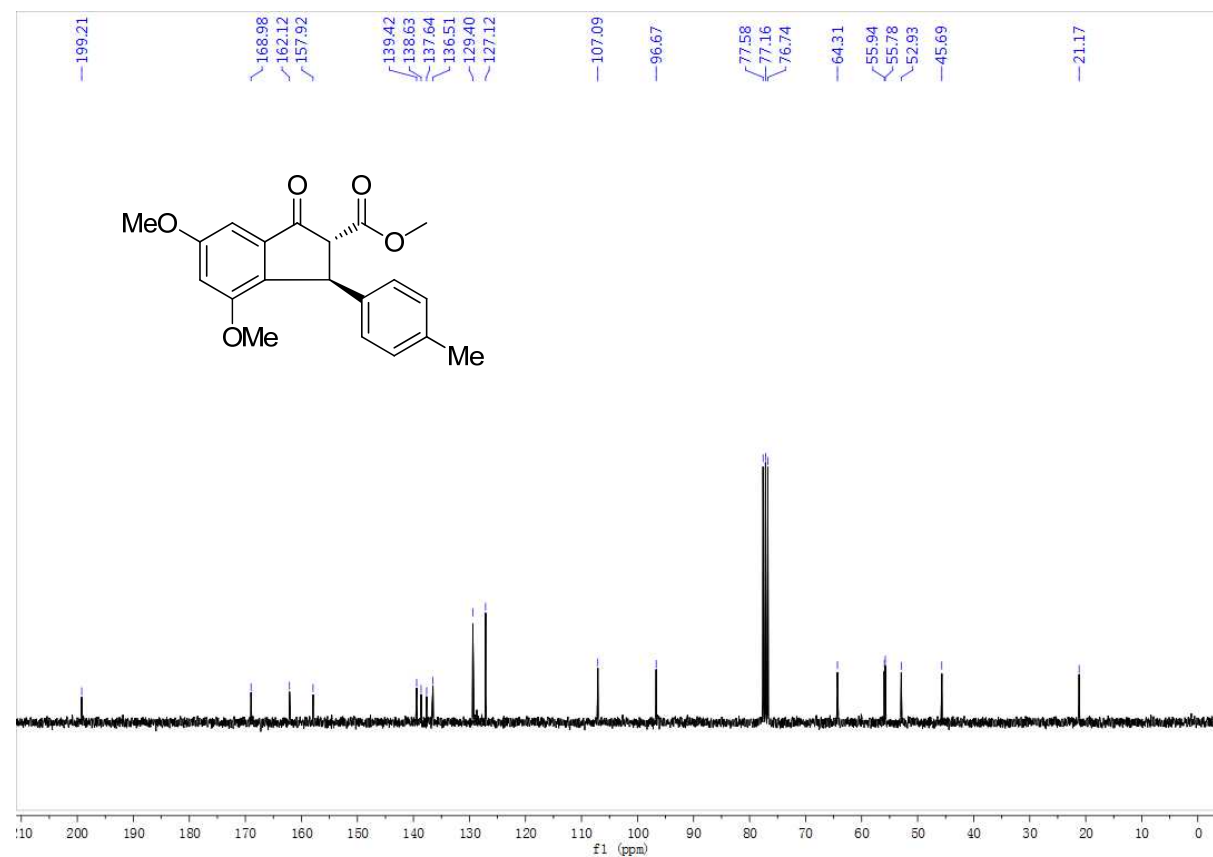


Compound **2g**

^1H NMR

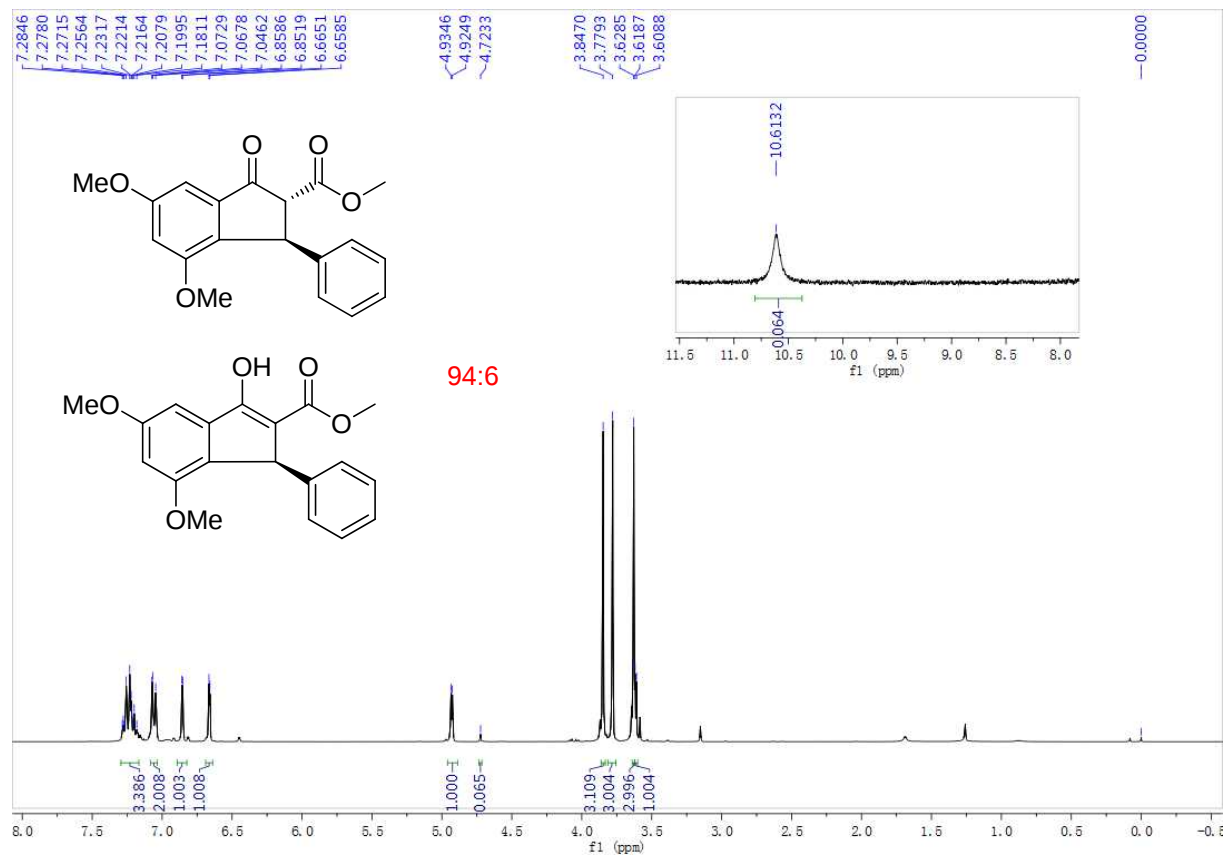


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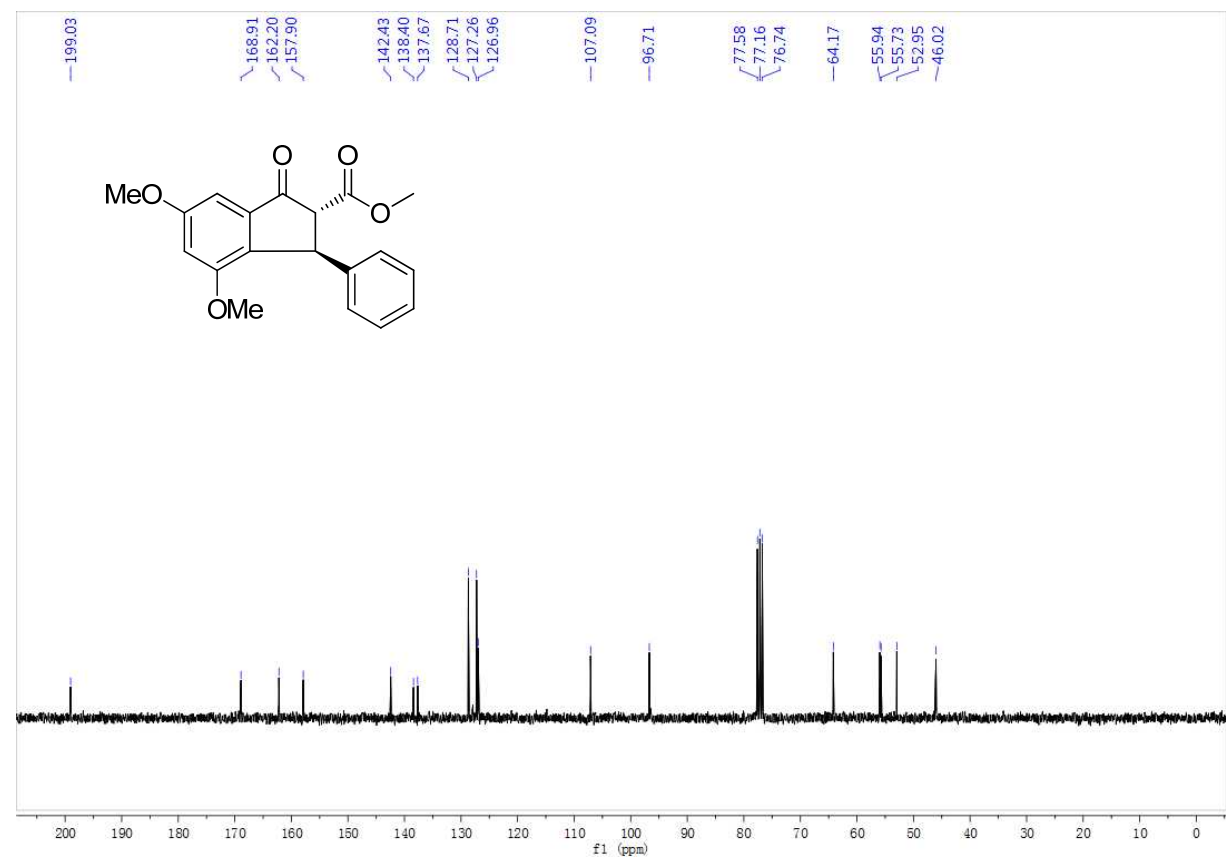


Compound 2h

¹H NMR

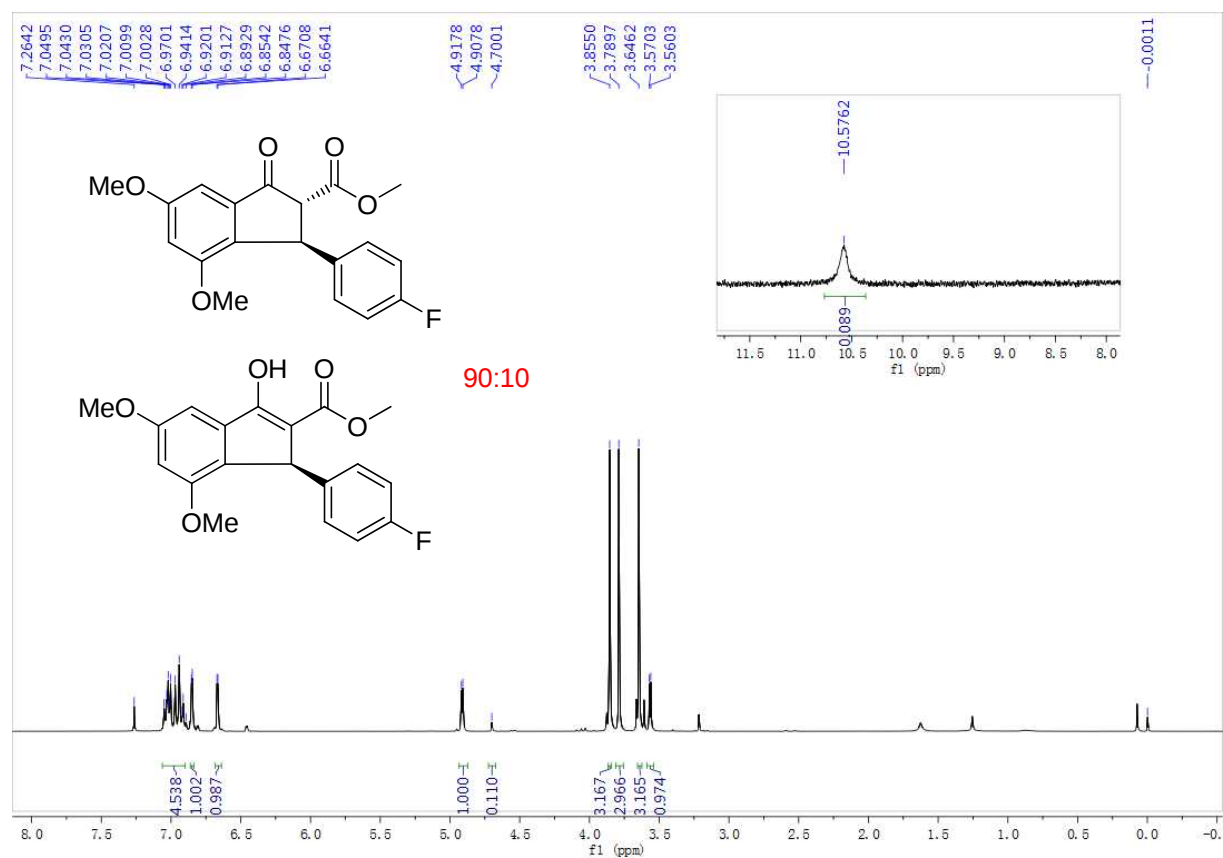


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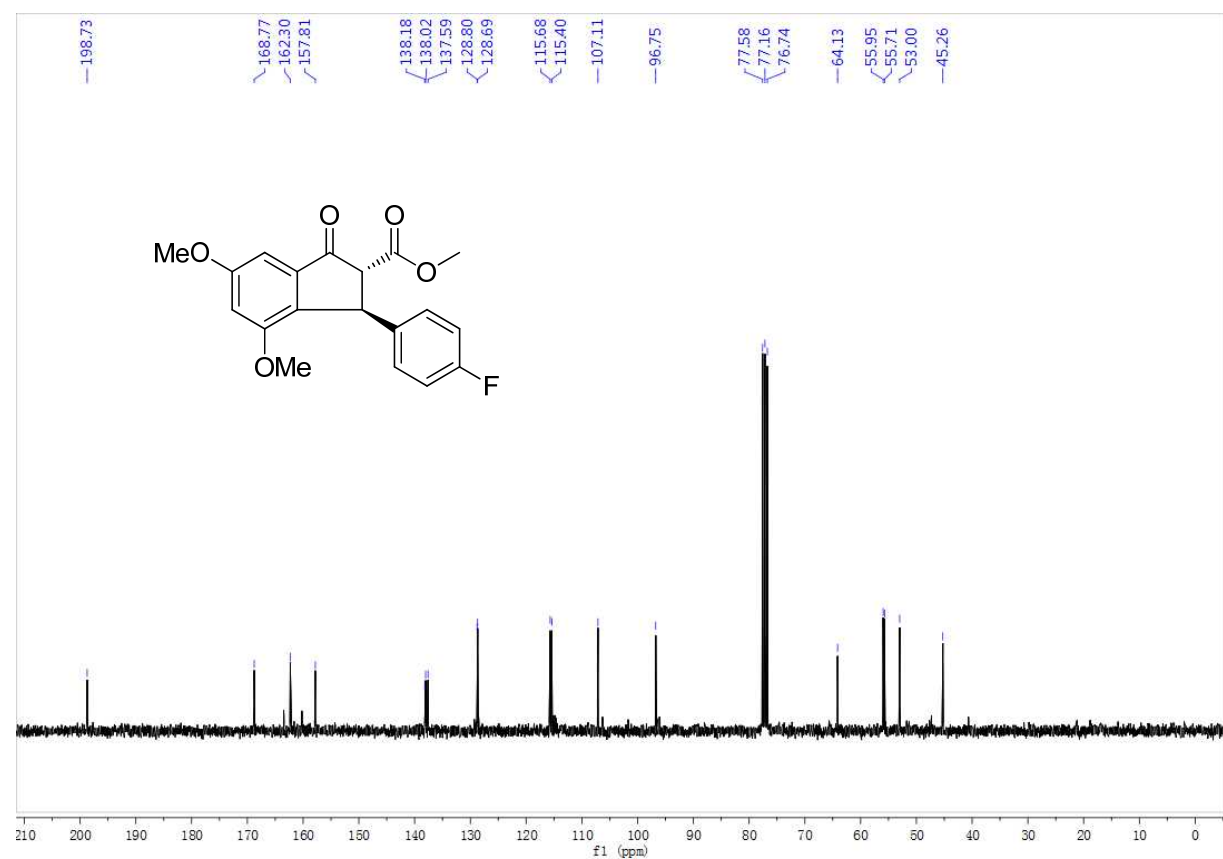


Compound 2i

¹H NMR

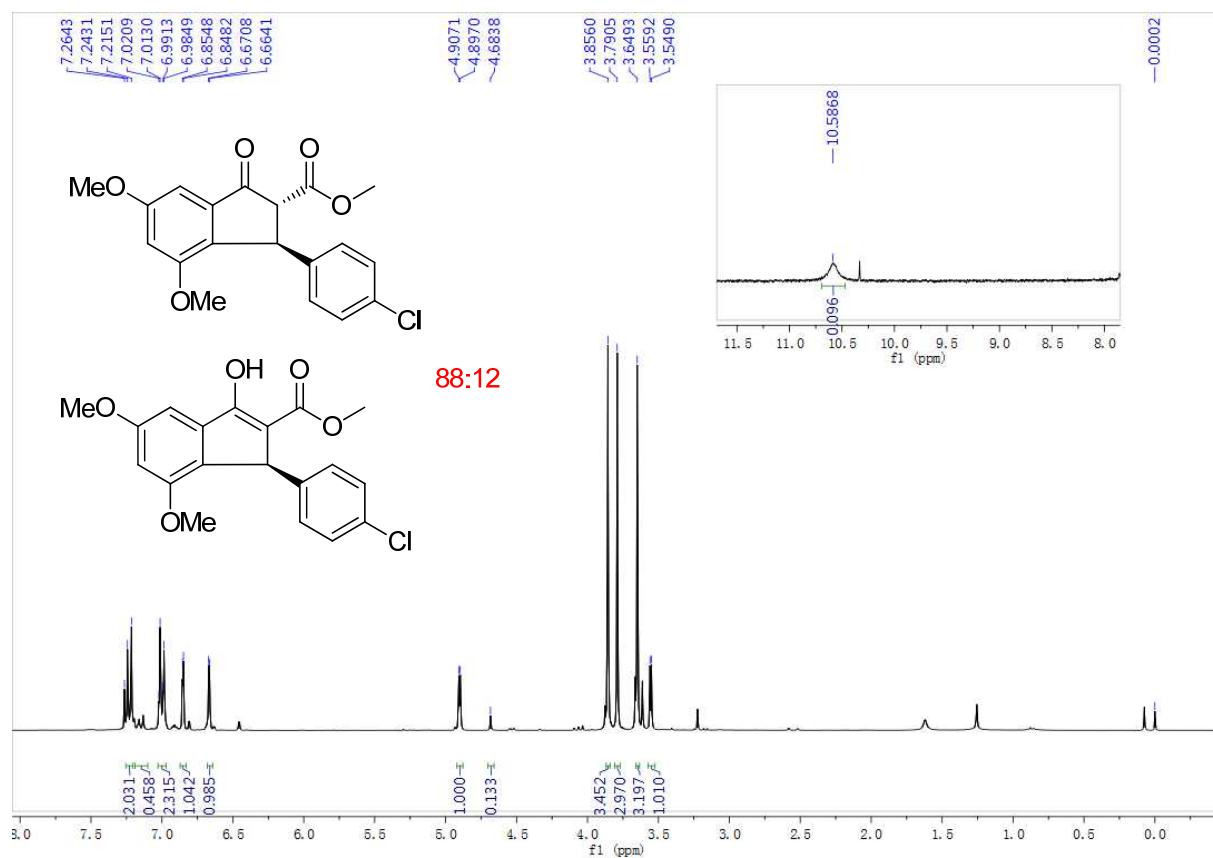


¹³C NMR

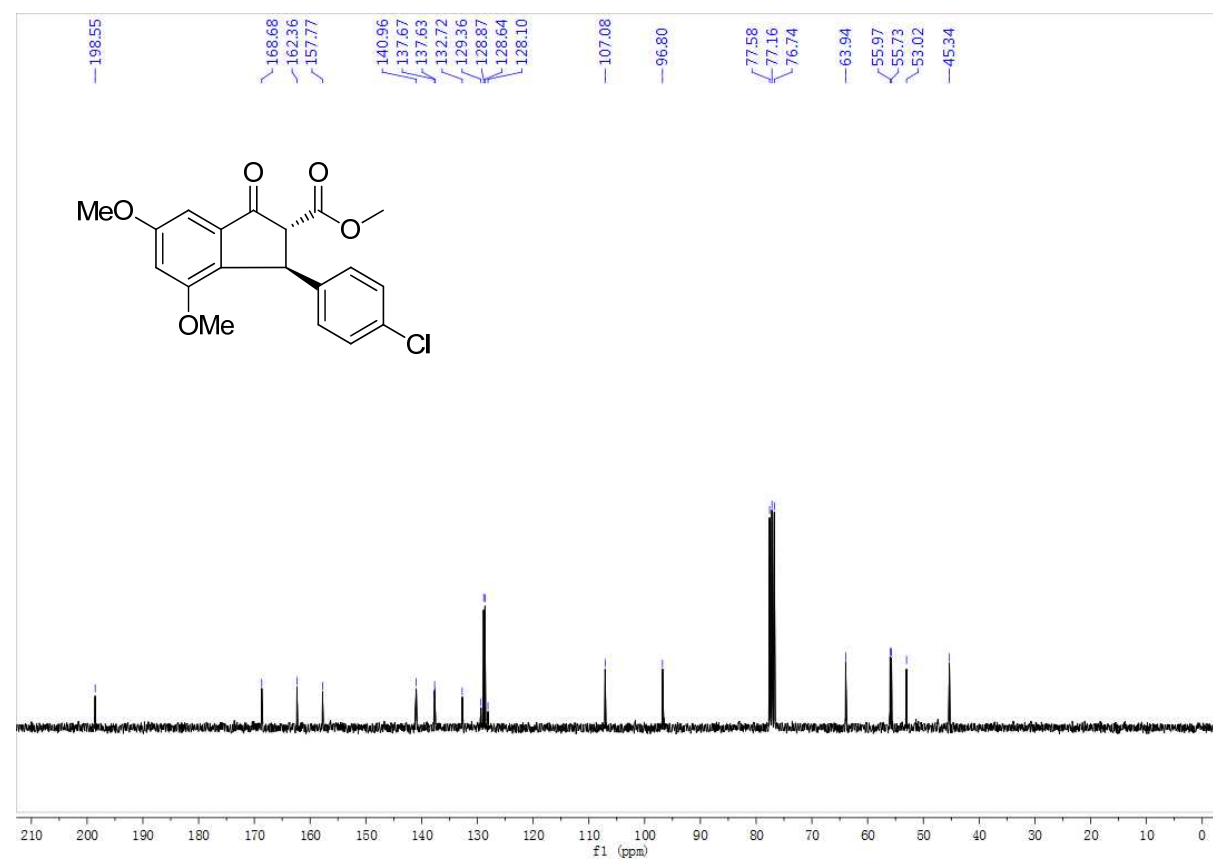


Compound 2j

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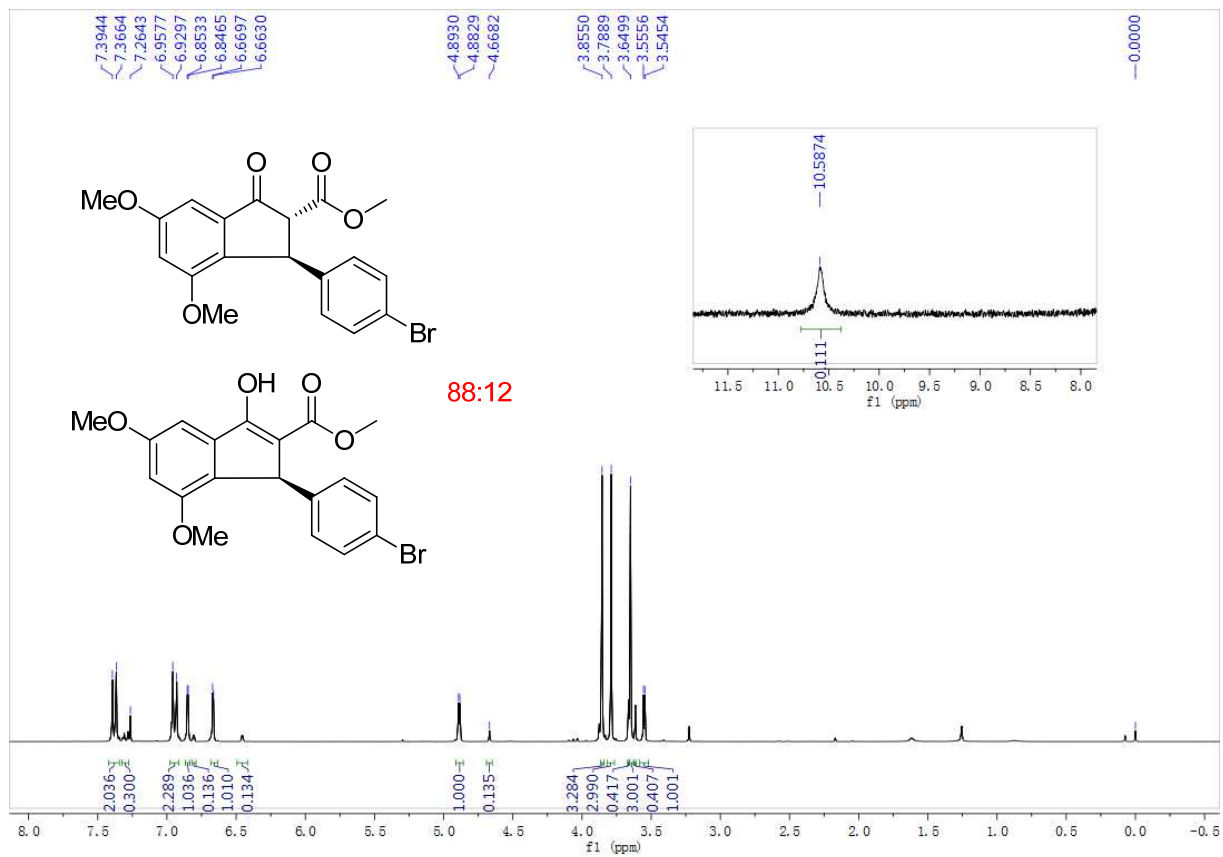


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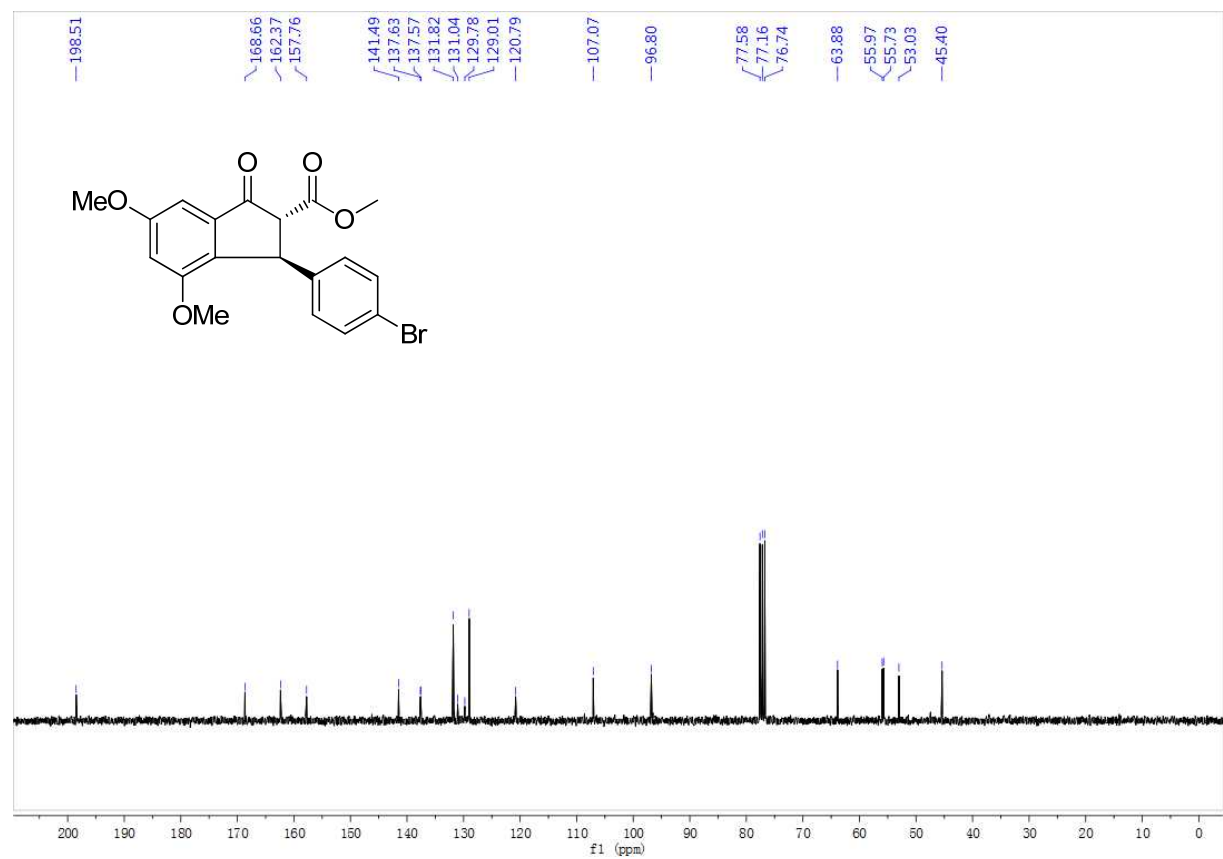


Compound 2k

¹H NMR

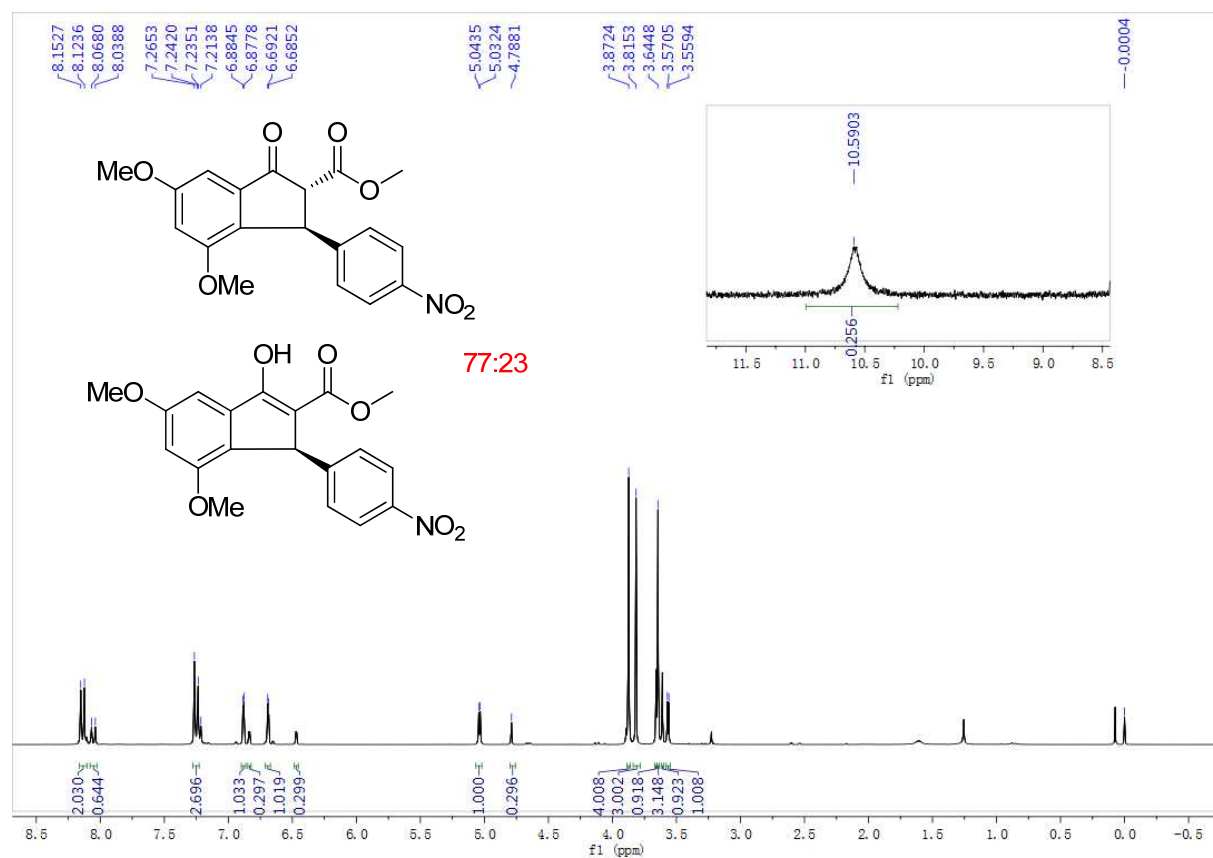


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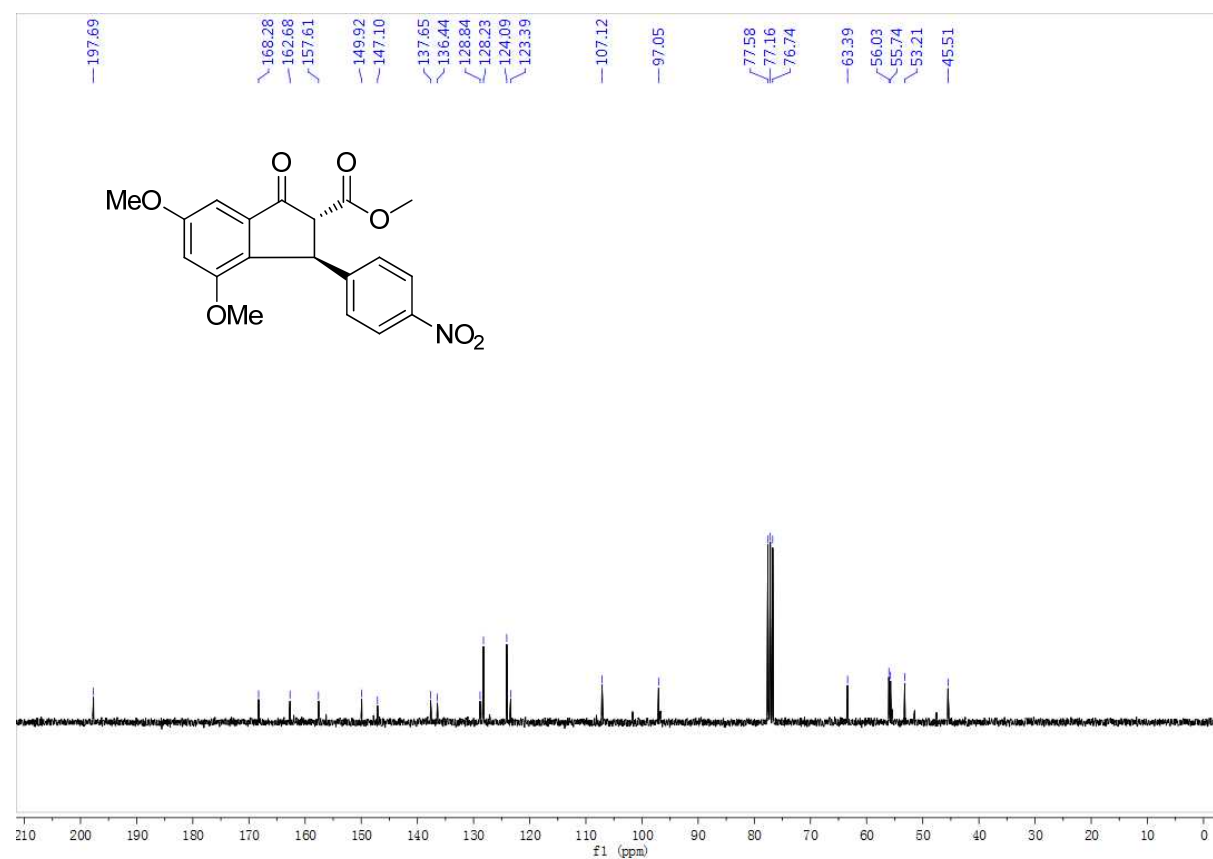


Compound 2l

¹H NMR

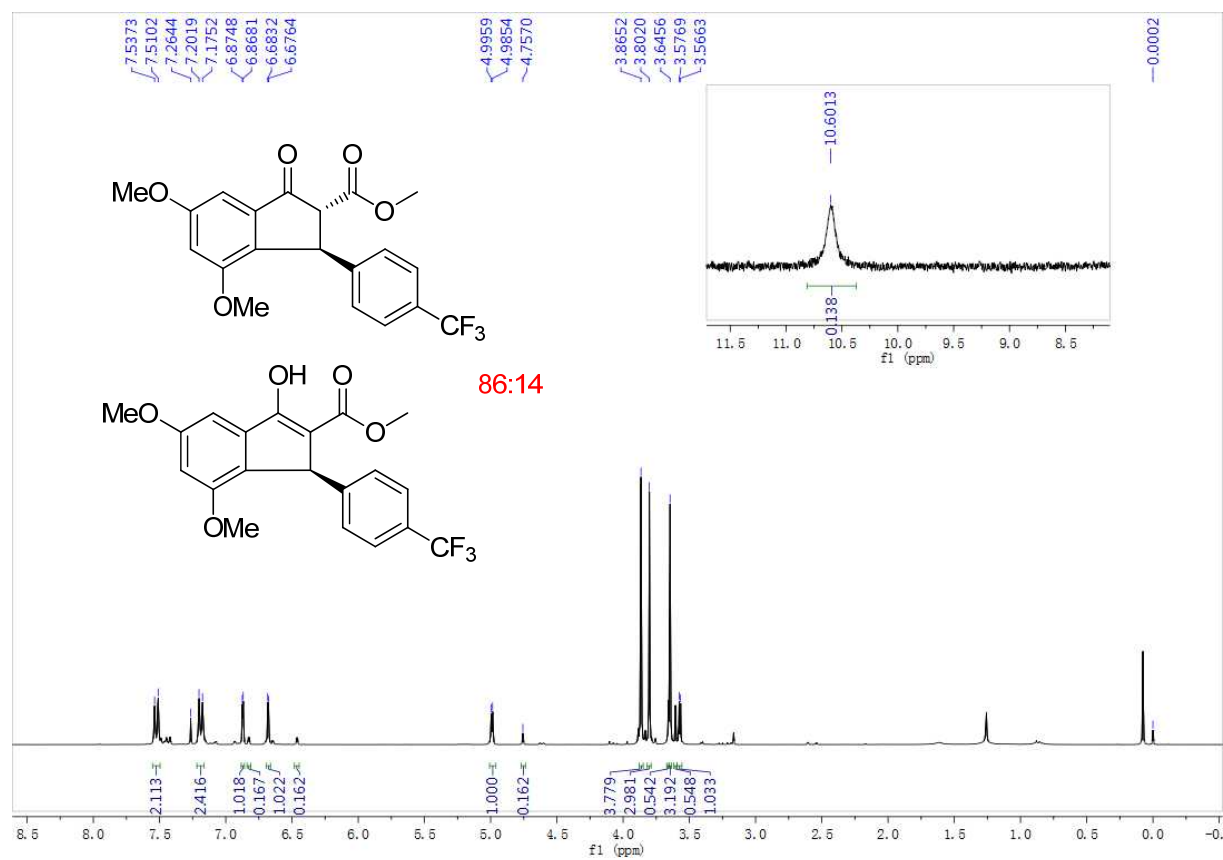


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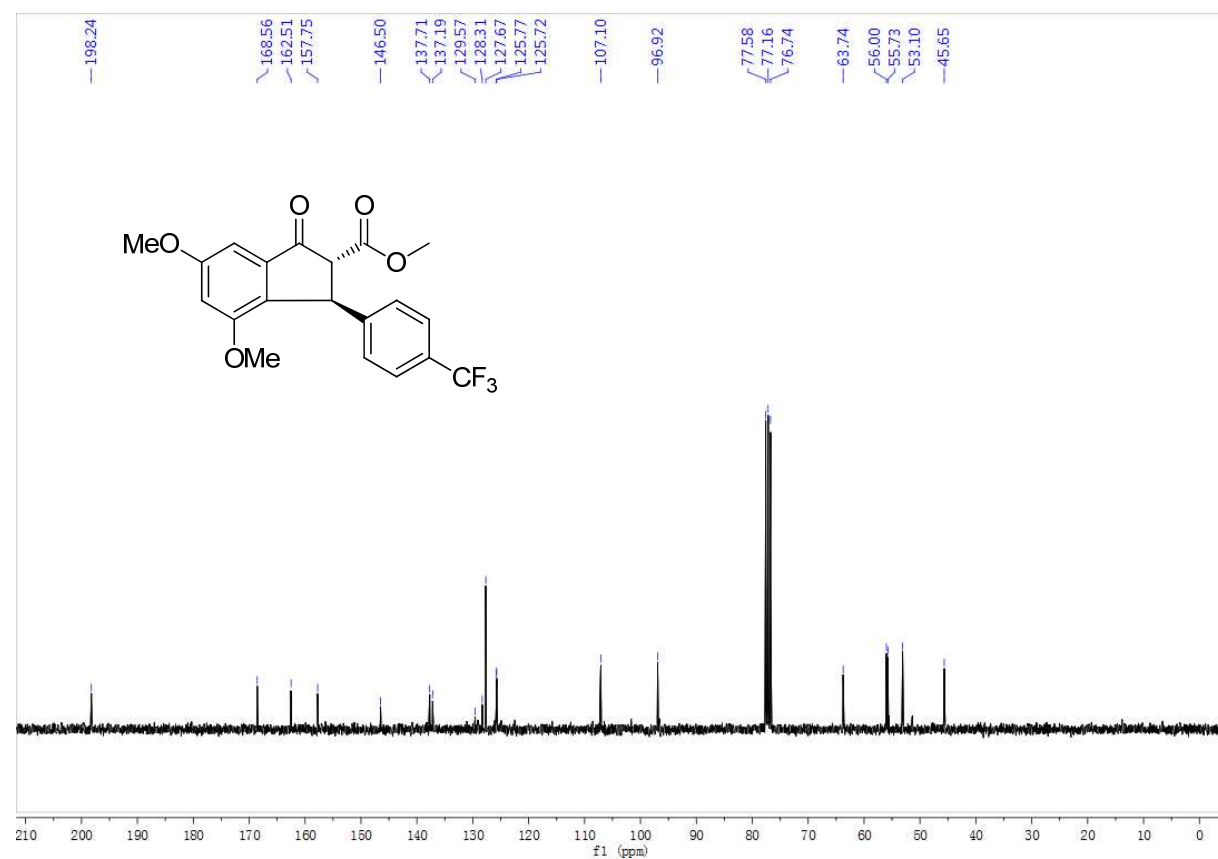


Compound **2m**

¹H NMR

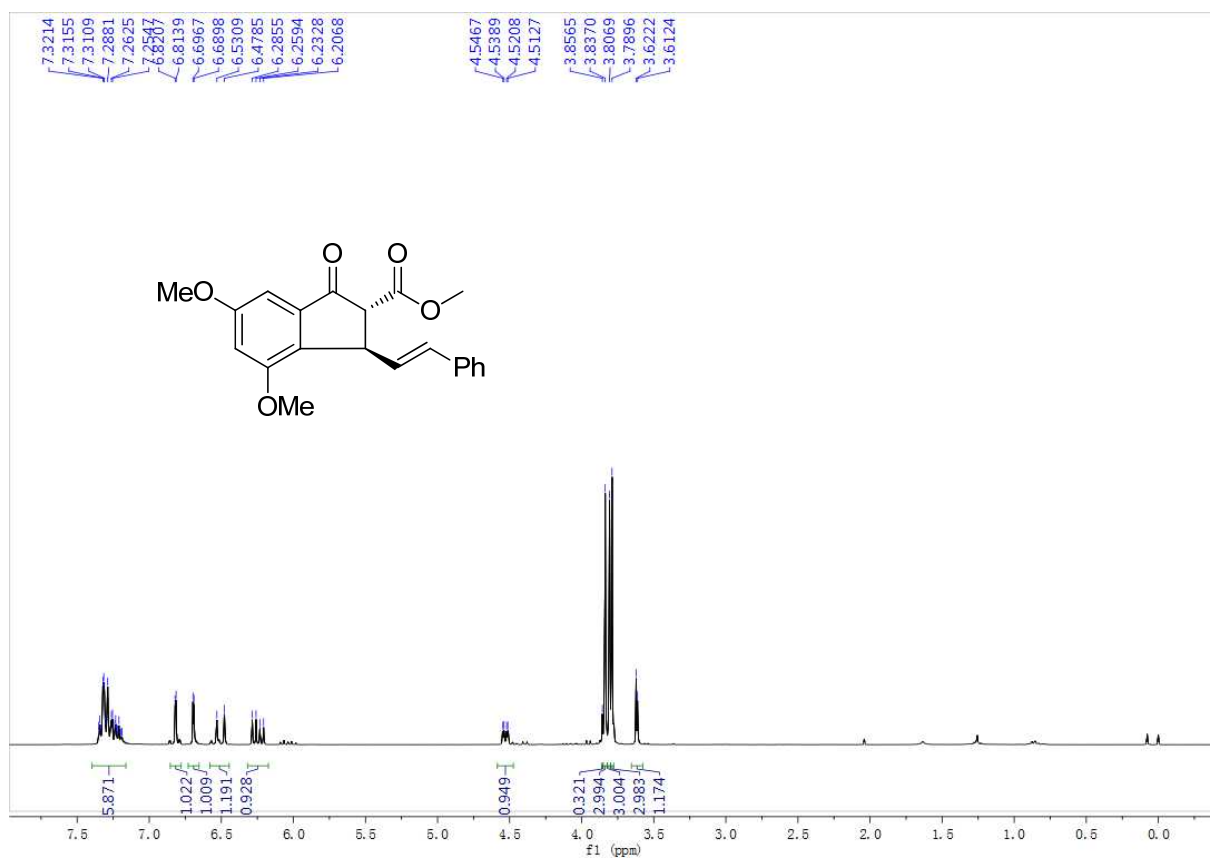


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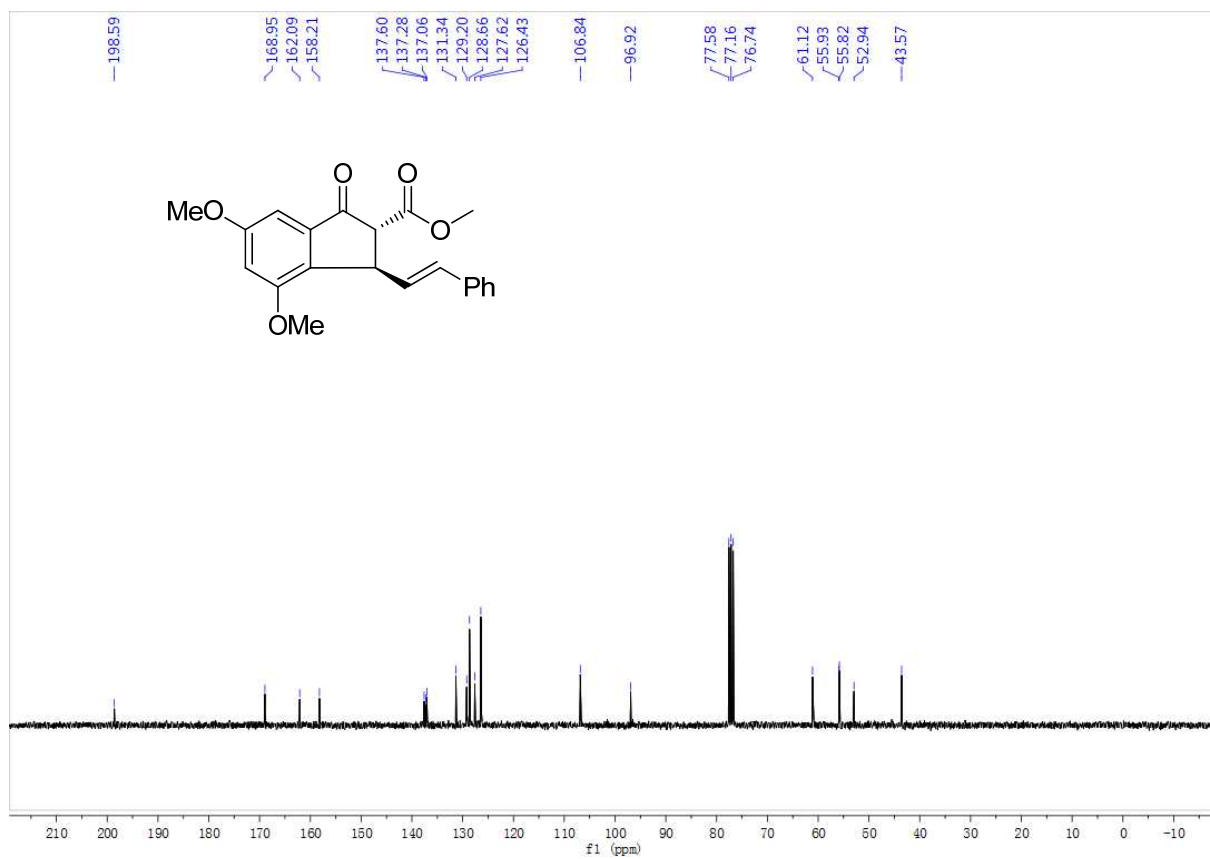


Compound **2n**

^1H NMR

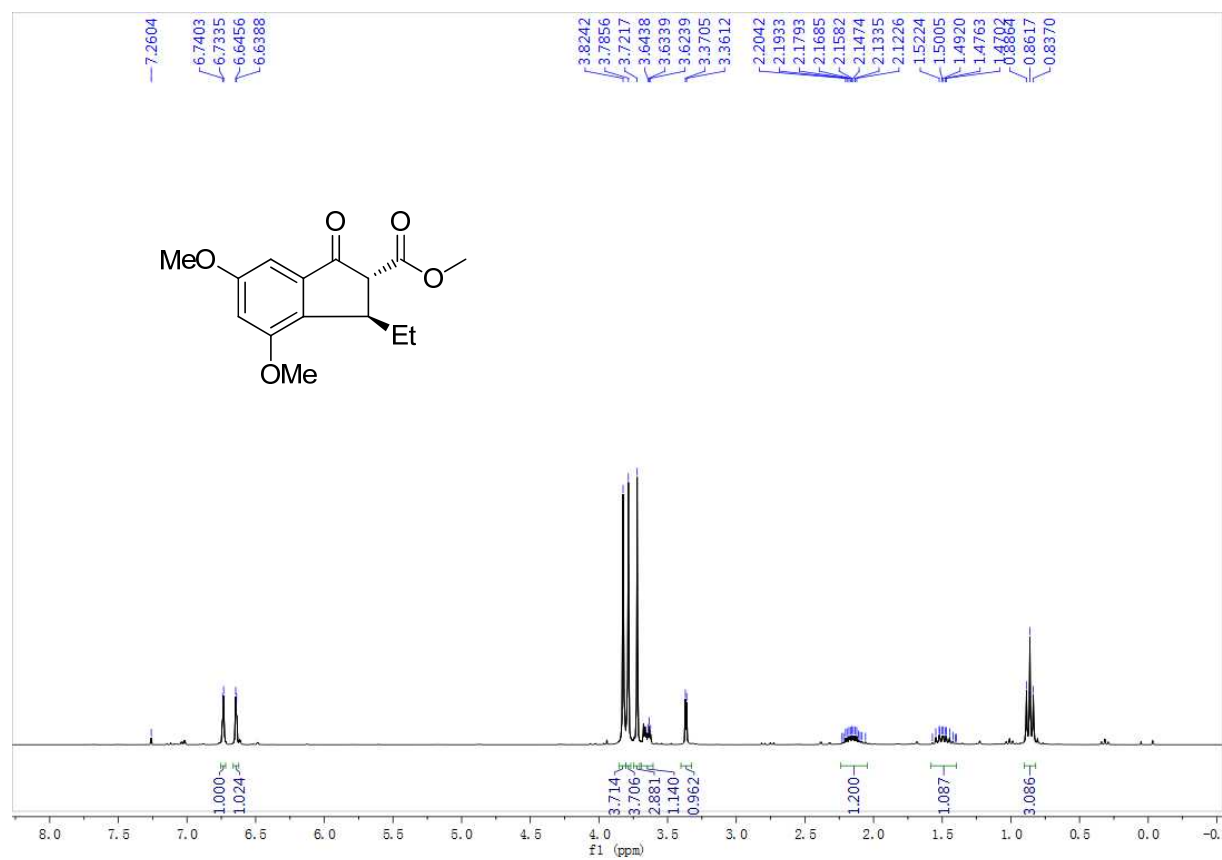


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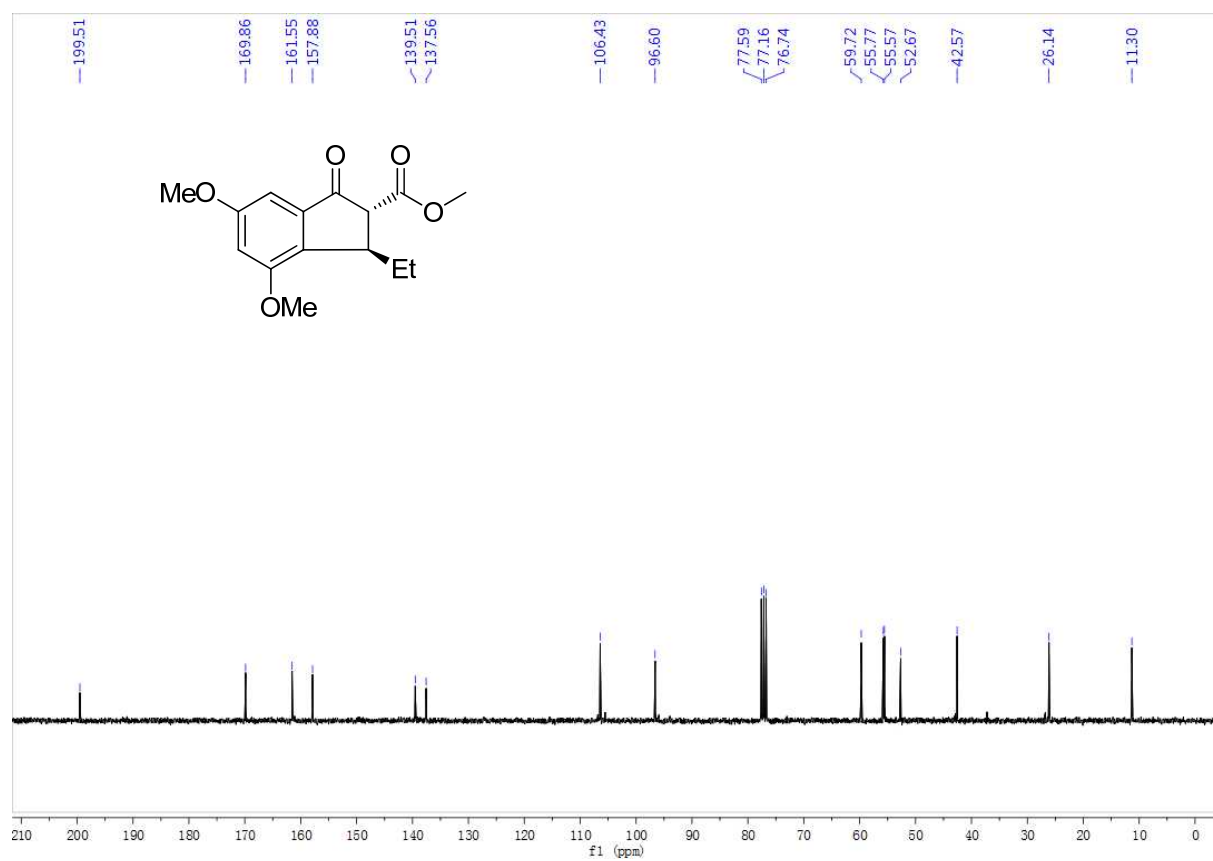


Compound 2o

¹H NMR

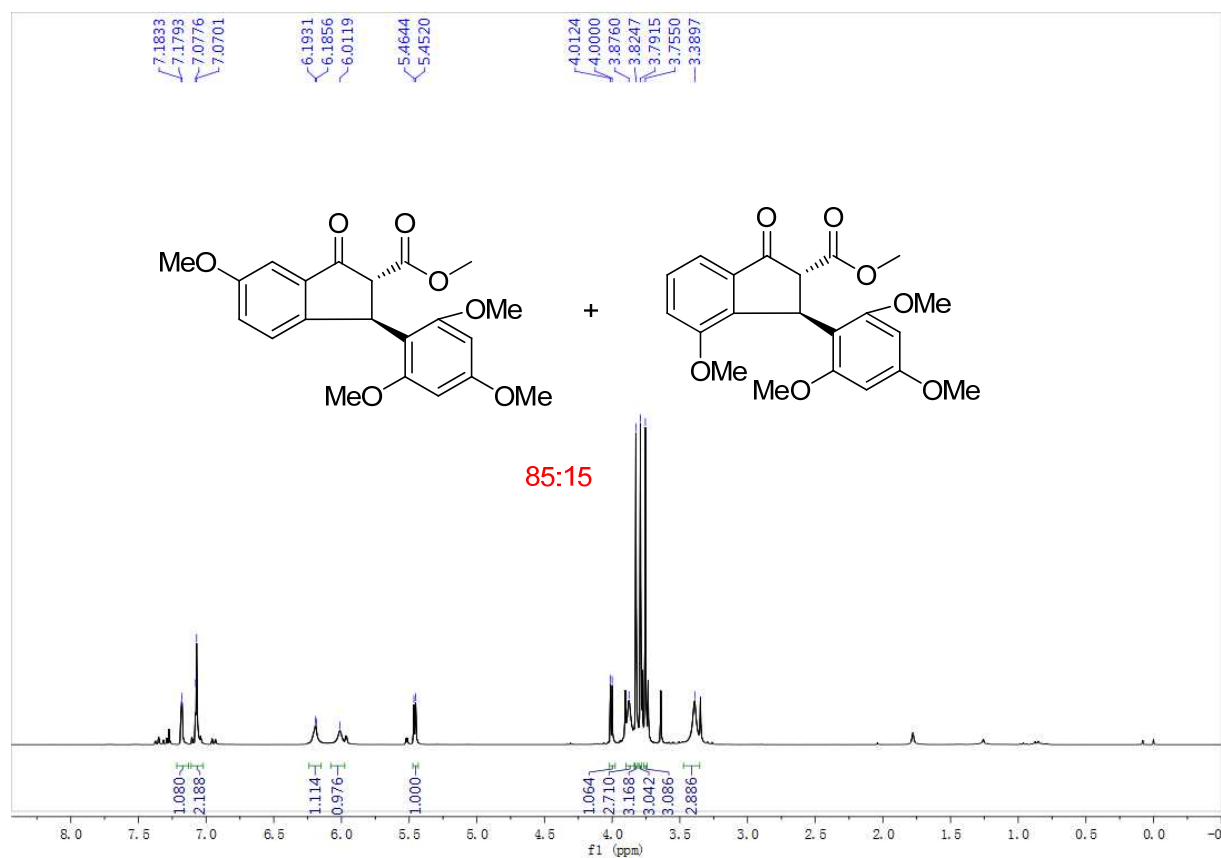


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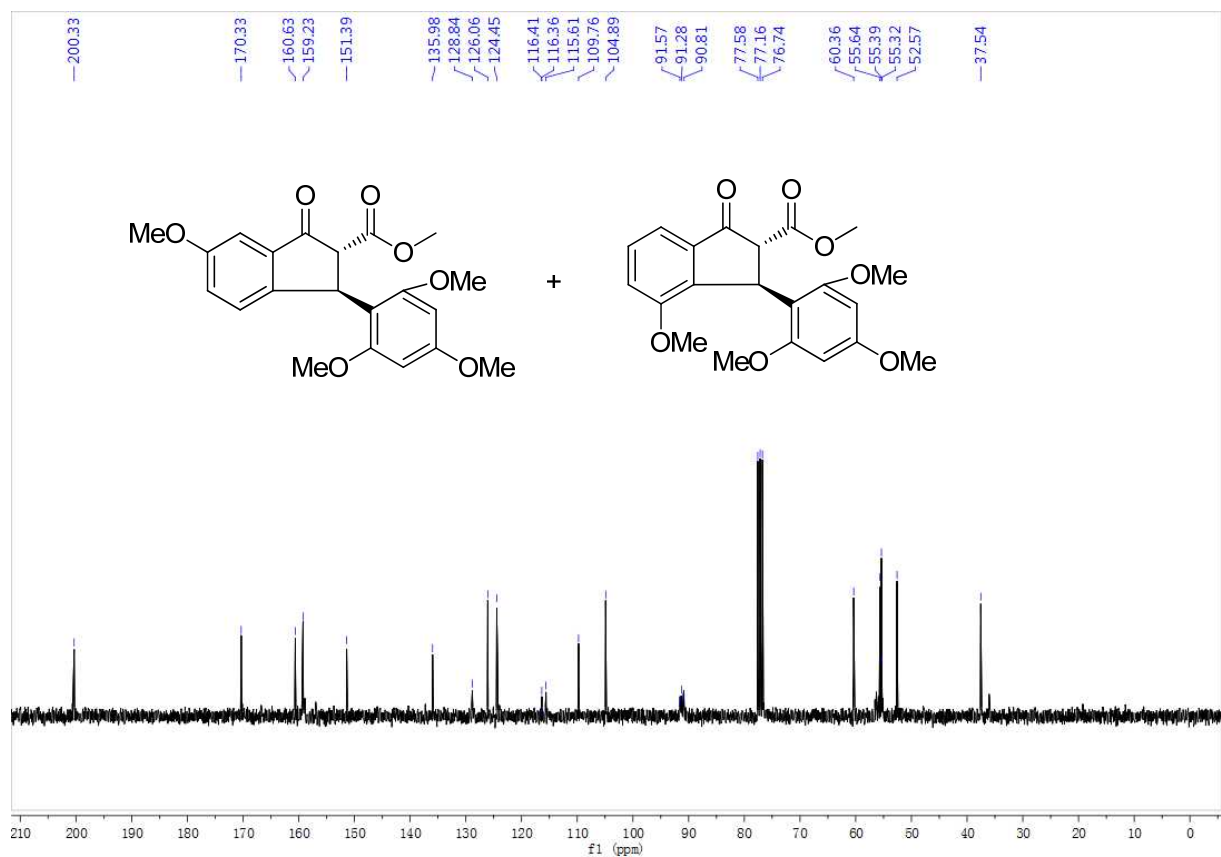


Compound **2p**

^1H NMR

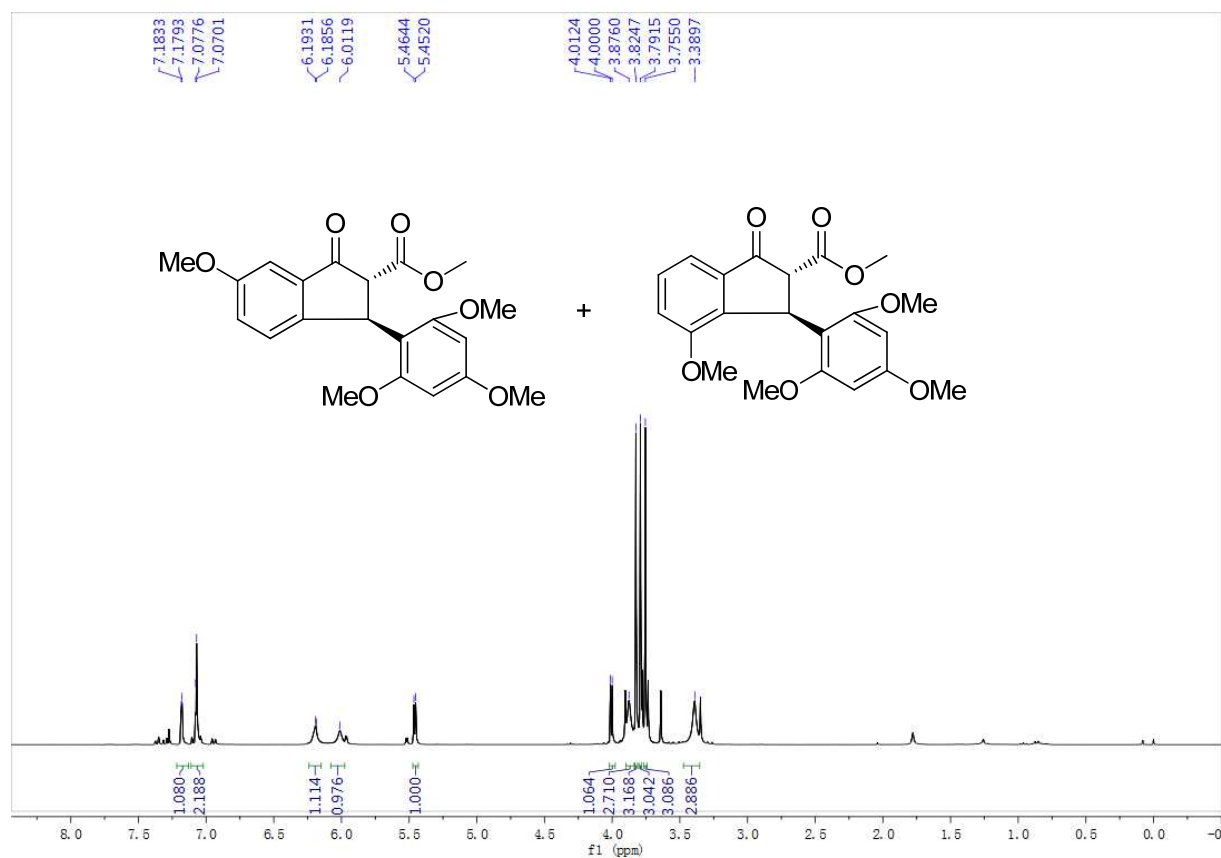


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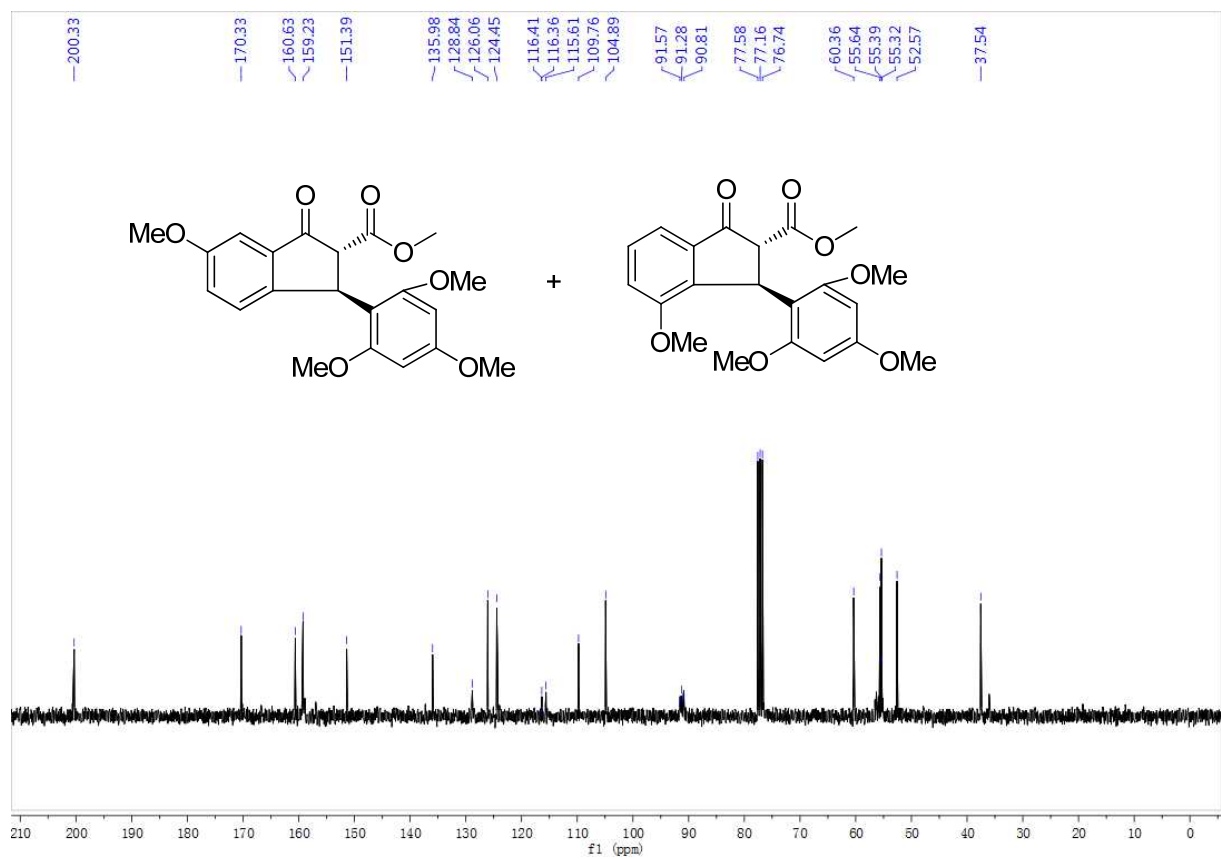


Compound **2p**

^1H NMR

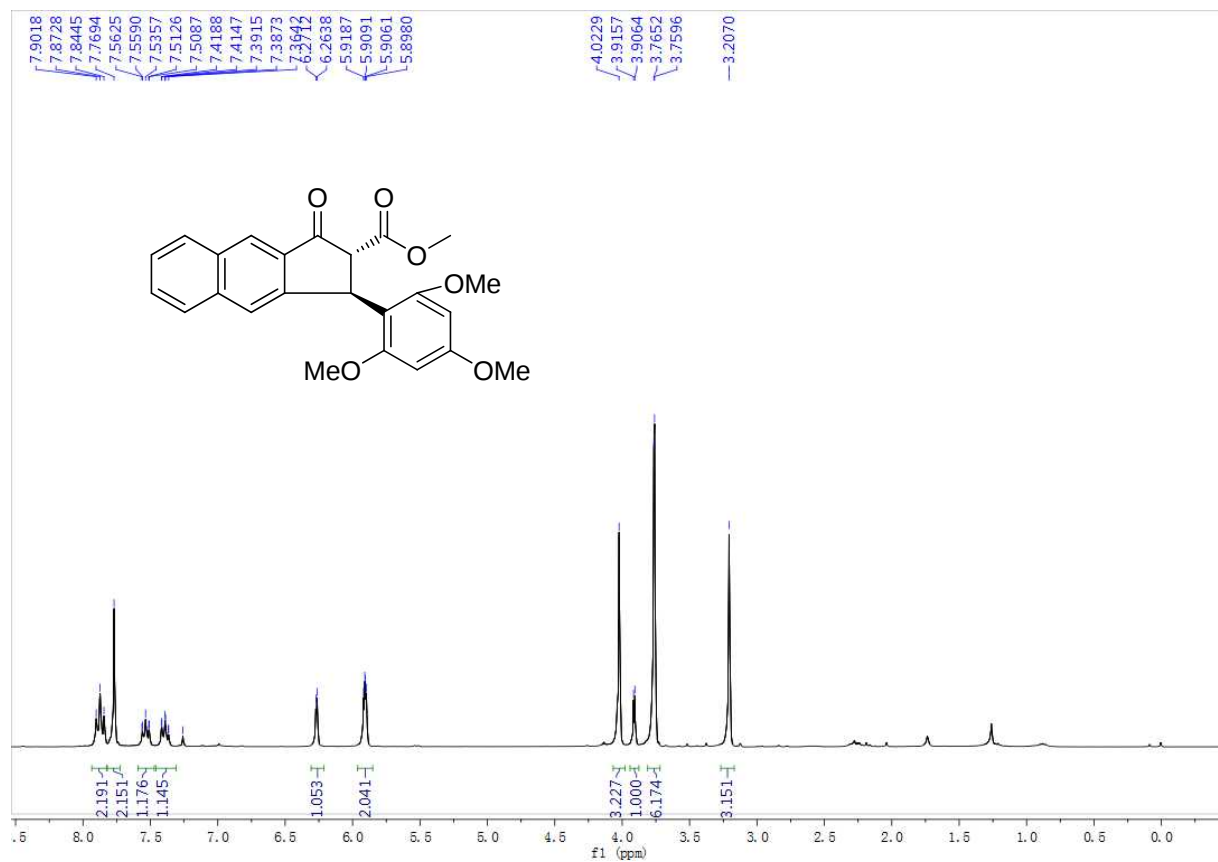


^{13}C NMR

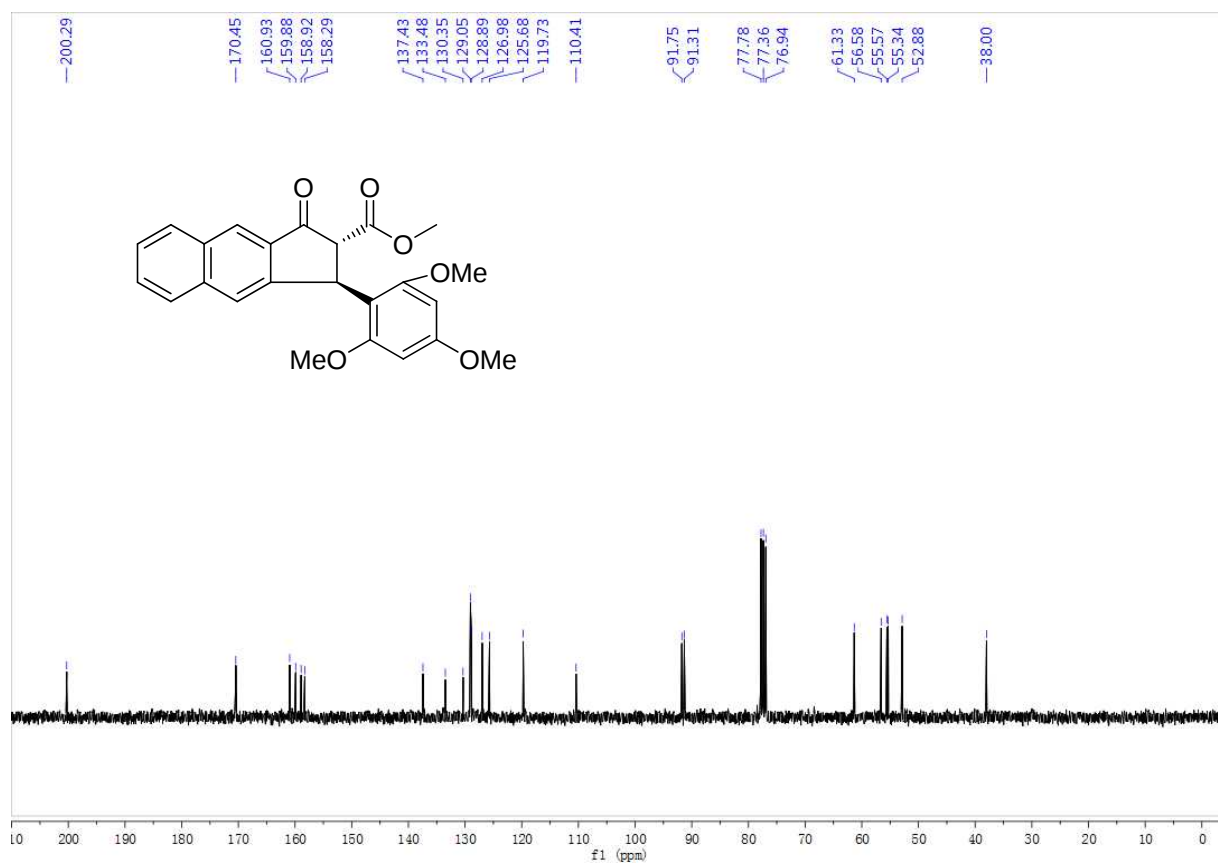


Compound 2s

¹H NMR

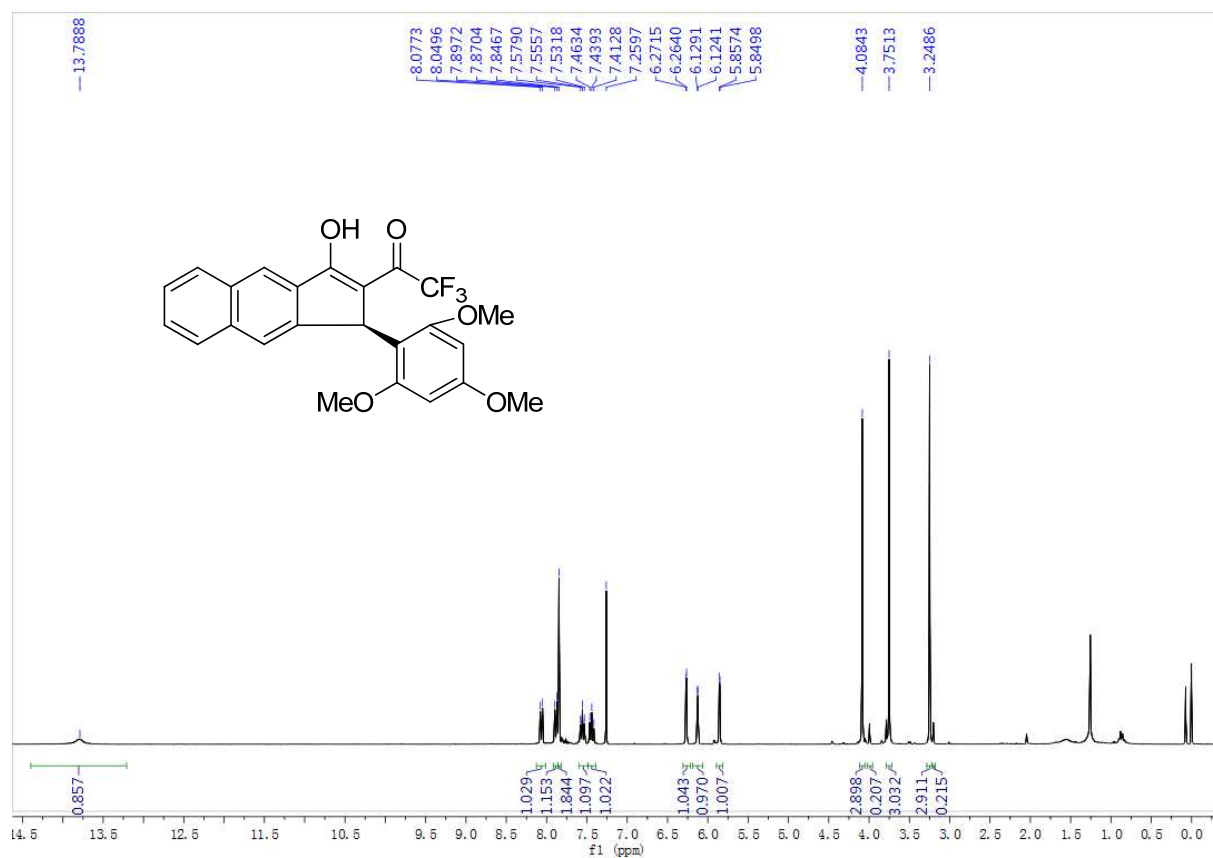


¹³C NMR

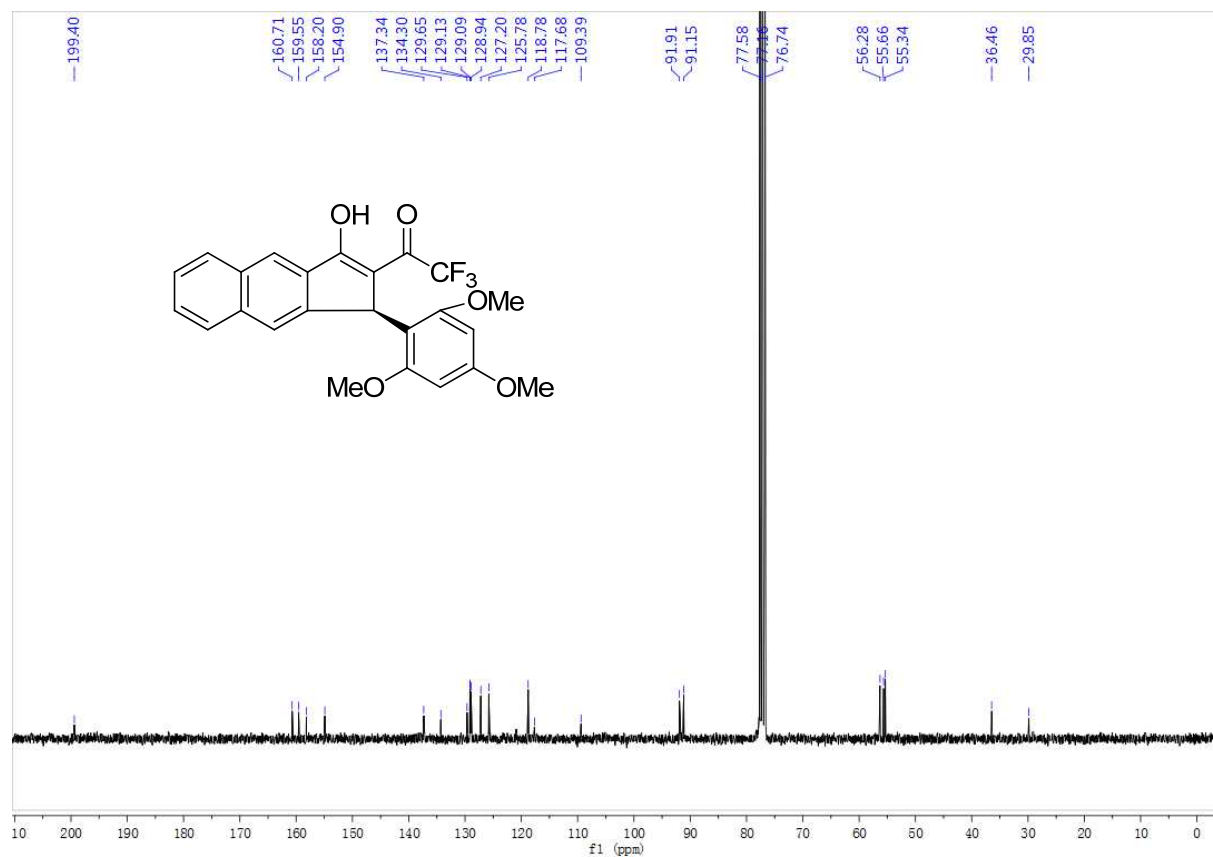


Compound 2t

^1H NMR

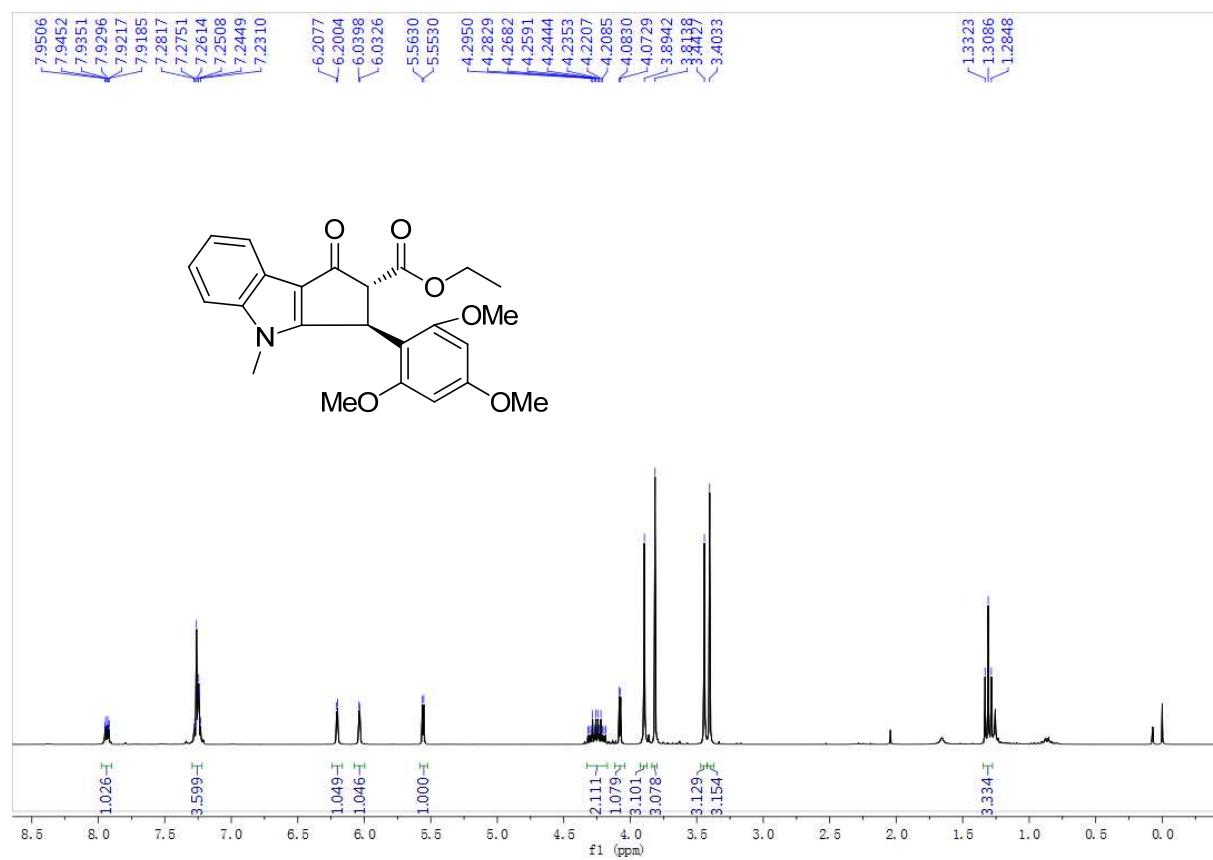


^{13}C NMR



Compound 2u

¹H NMR



¹³C NMR

