

## Supporting Information

### **CuBr/NHPI Co-catalyzed Aerobic Oxidative [3+2] Cycloaddition-Aromatization to Access 5,6-dihydro-pyrrolo[2, 1-*a*]isoquinolines**

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Zhiyu Ju, Shanshan Li,<sup>a</sup> and DandanLi<sup>\*a</sup>

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461000, Henan, P. R. China.*

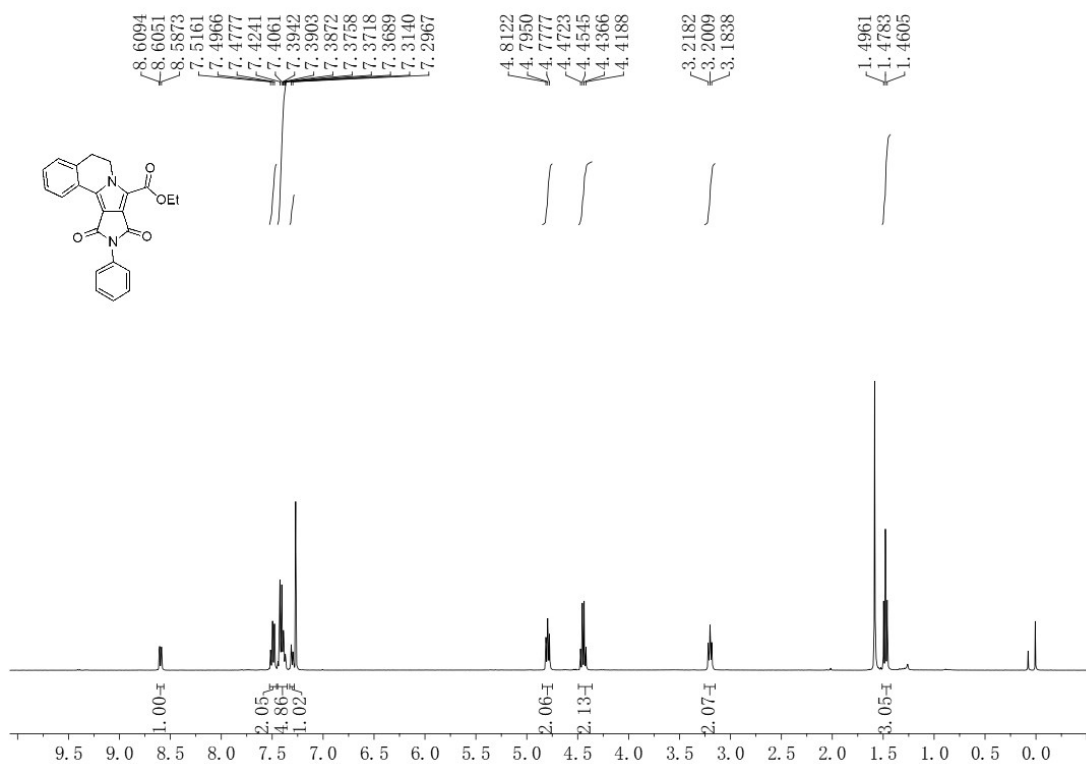
<sup>b</sup> *Thyroid and breast surgery, Xuchang Central Hospital, No.30 Huatuo Road,  
Xuchang, Henan 461000, P. R. China.*

*E-mail: zhiyu0823@163.com; dandanli2015@outlook.com.*

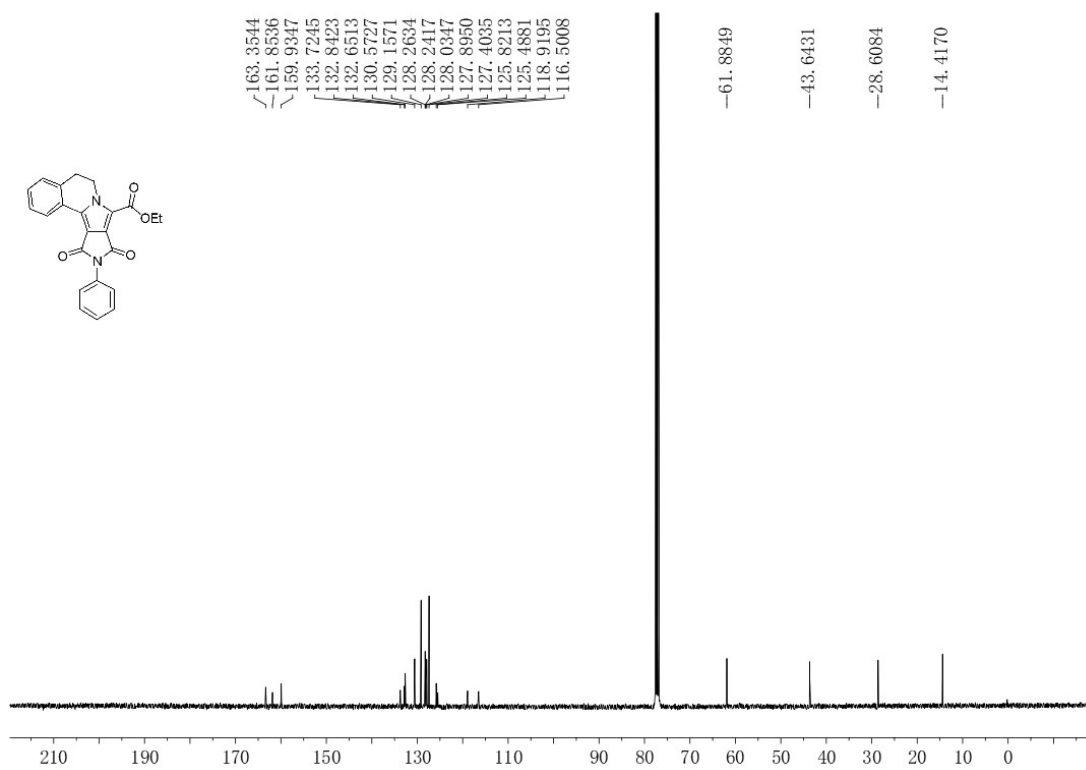
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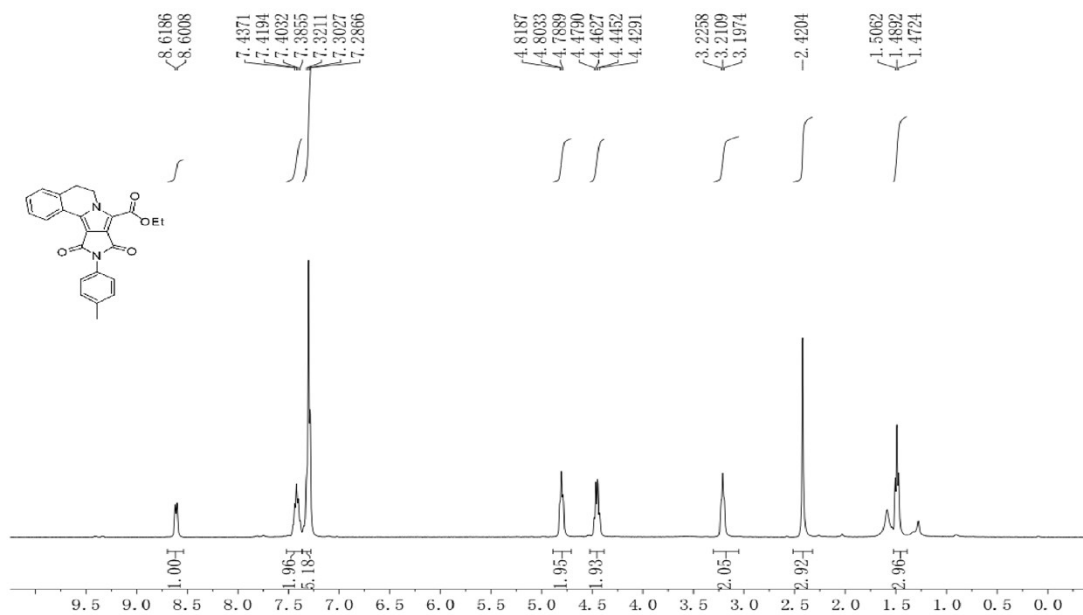
# $^1\text{H}$ NMR and $^{13}\text{C}$ NMR



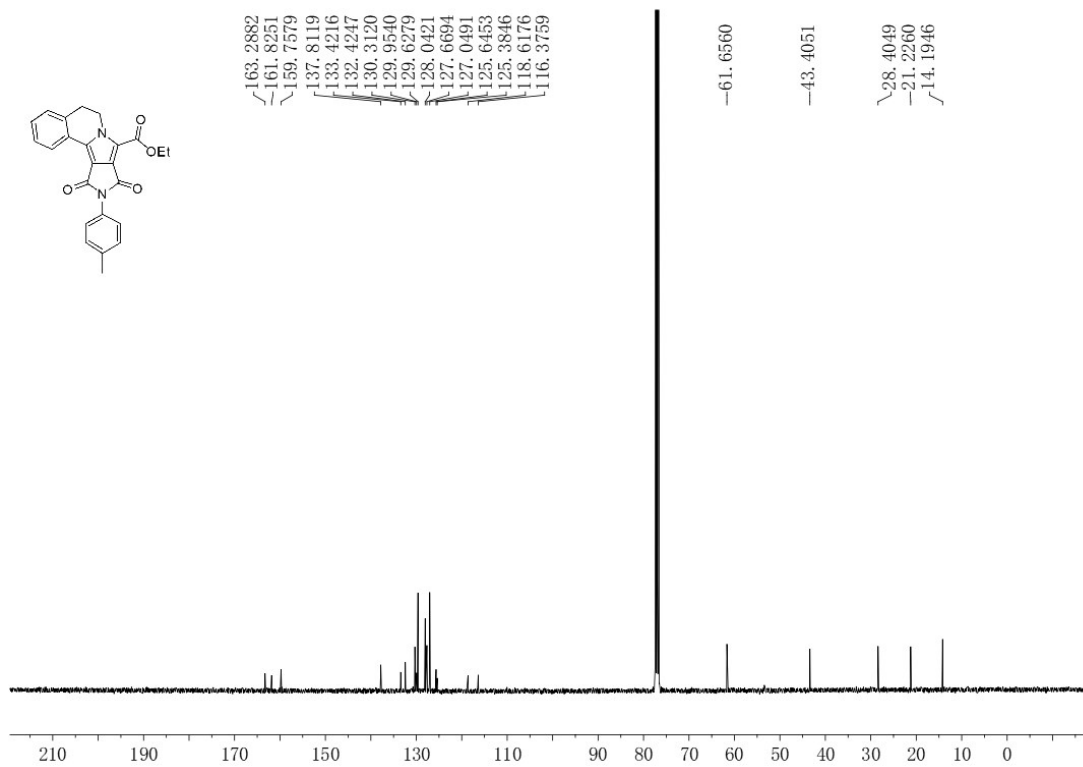
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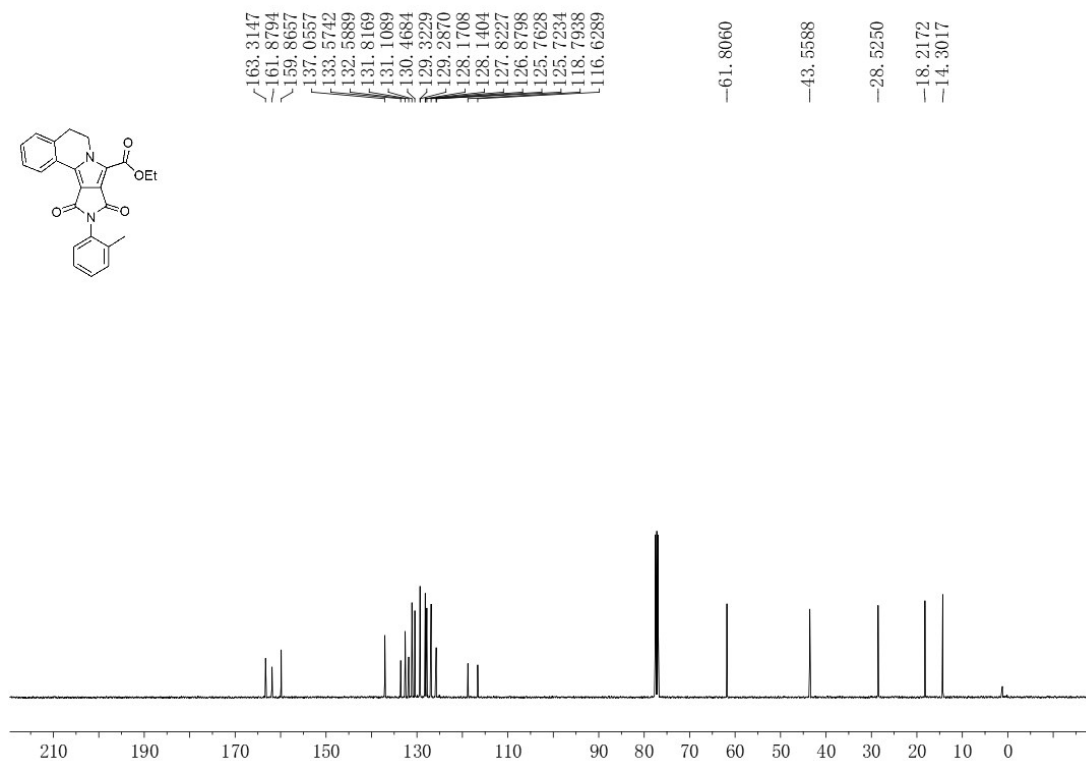
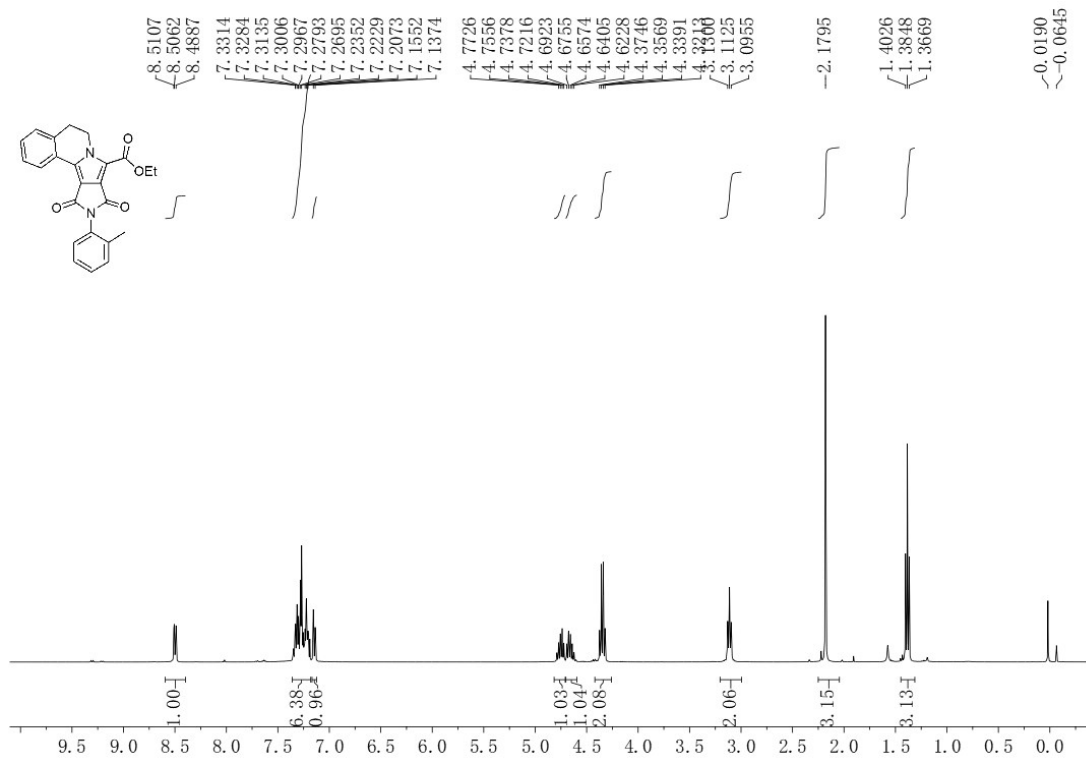
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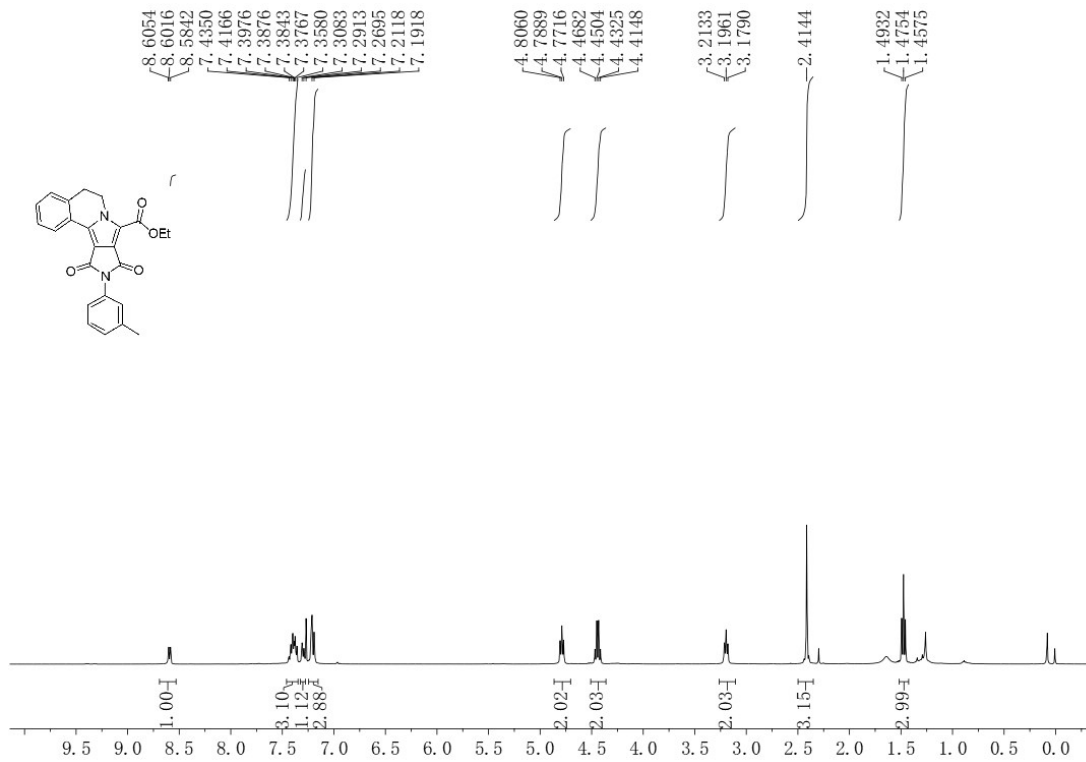


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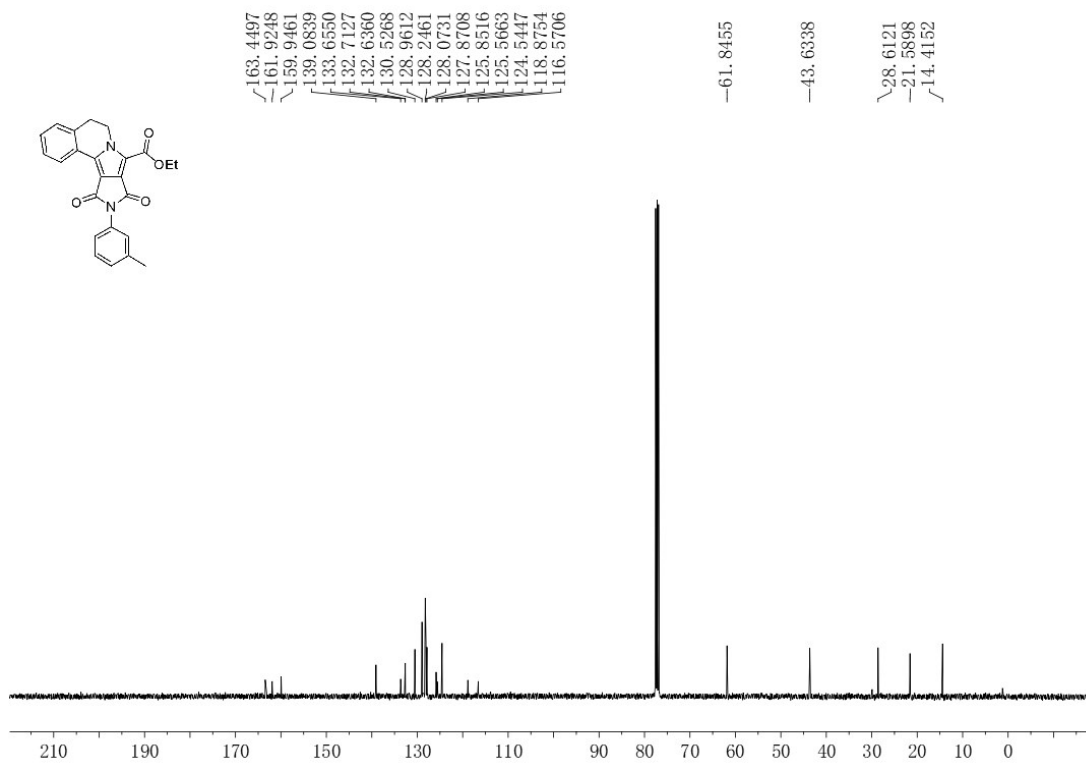


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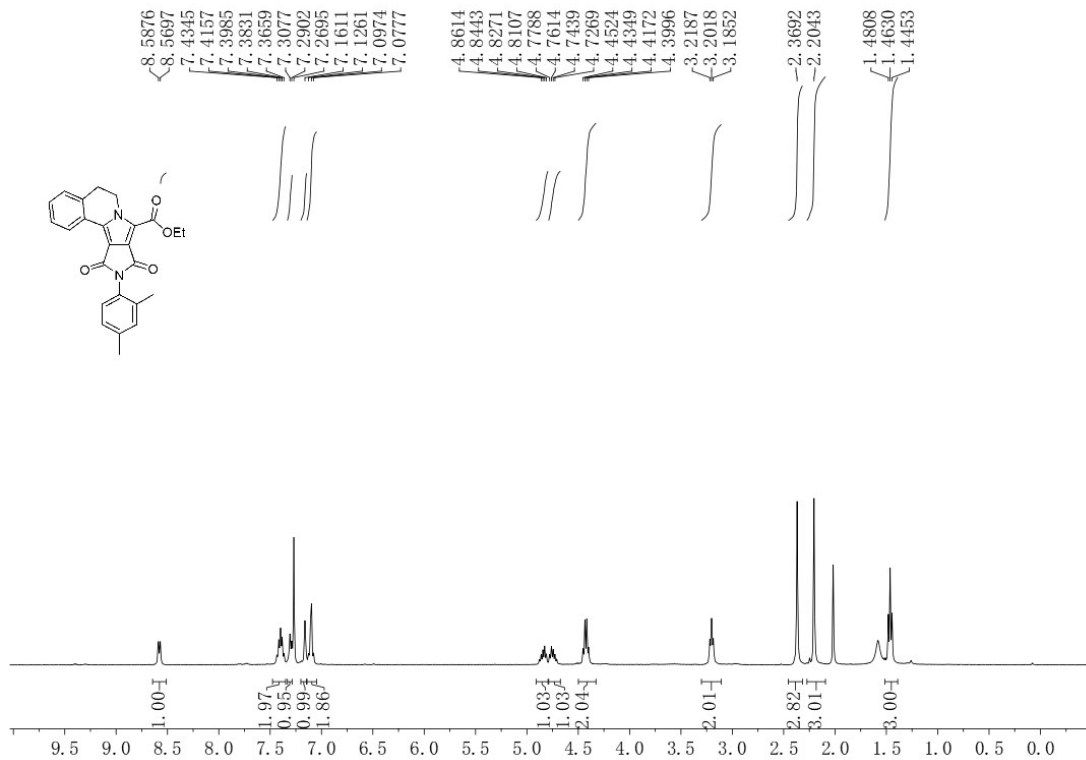




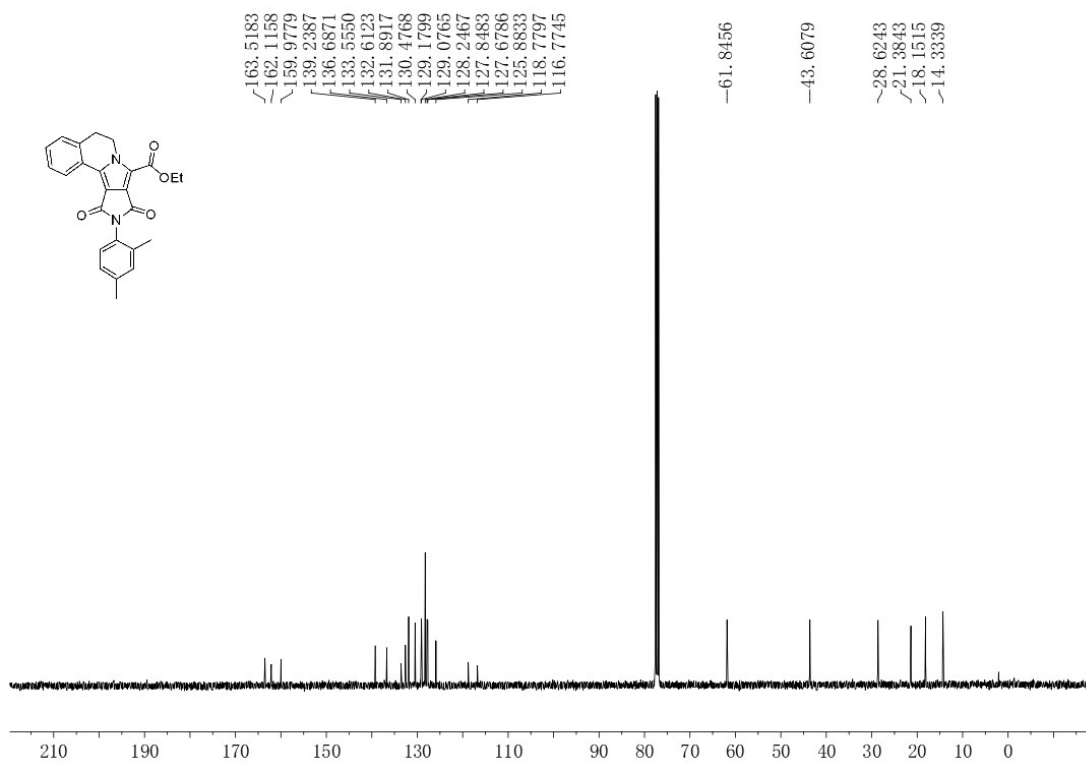
**<sup>1</sup>H NMR of 3d**



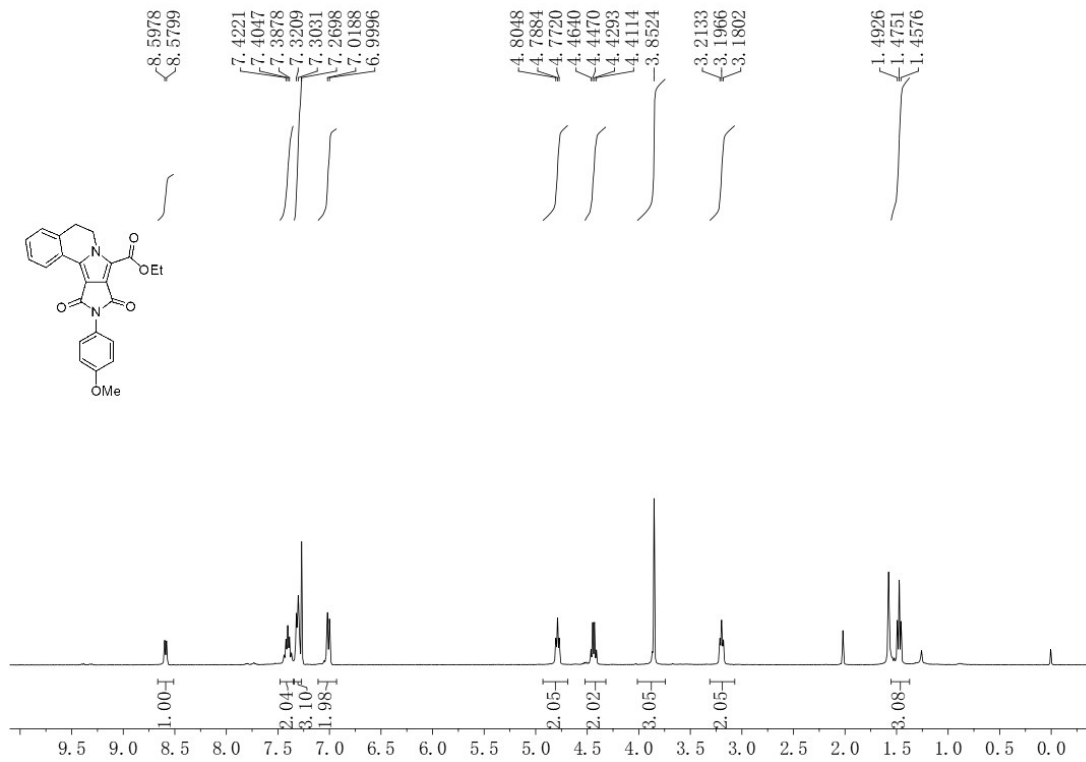
**<sup>13</sup>C NMR of 3d**



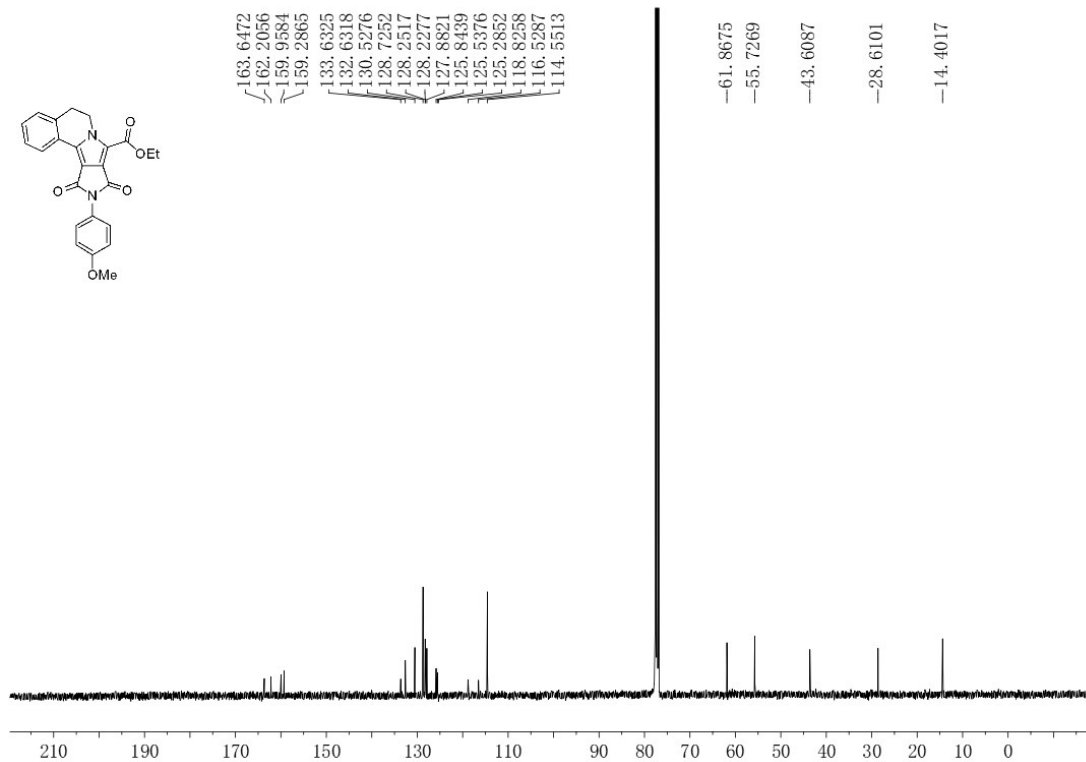
<sup>1</sup>H NMR of **3e**



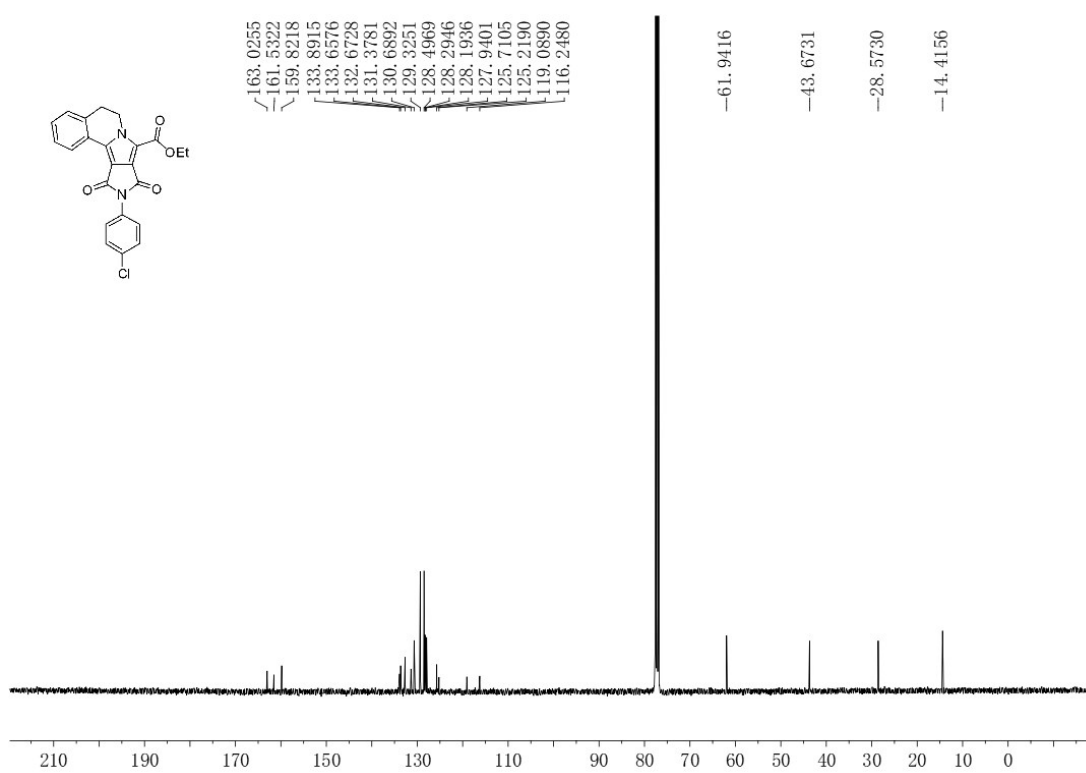
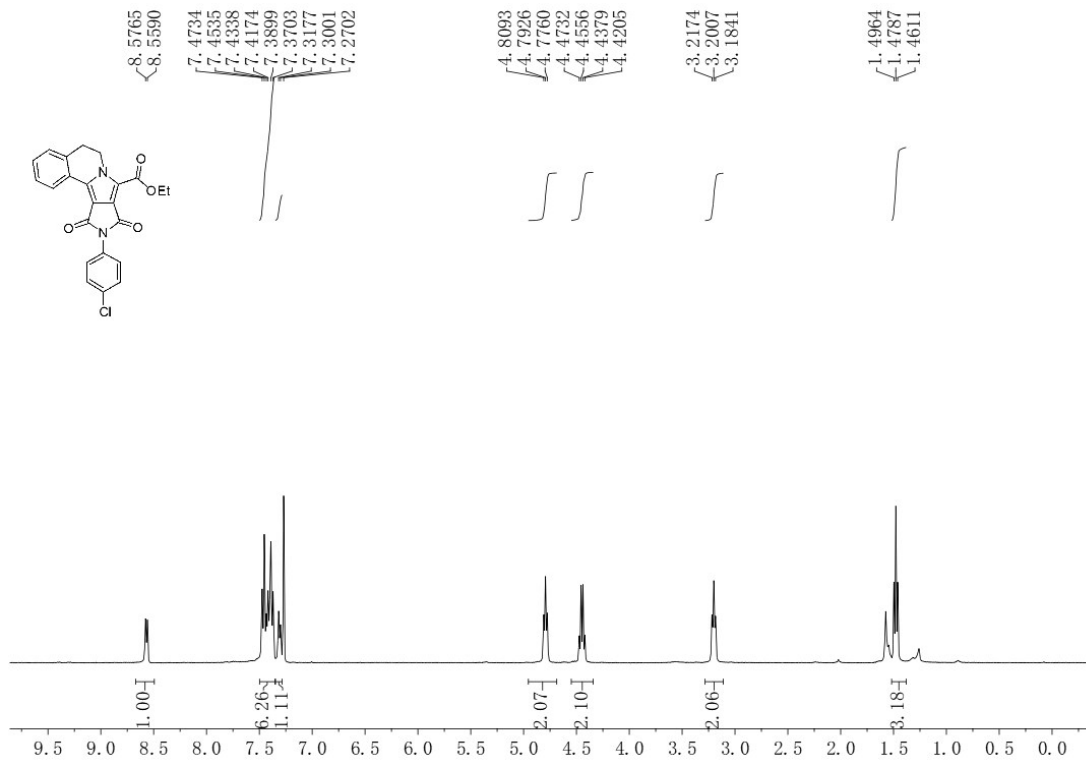
<sup>13</sup>C NMR of **3e**



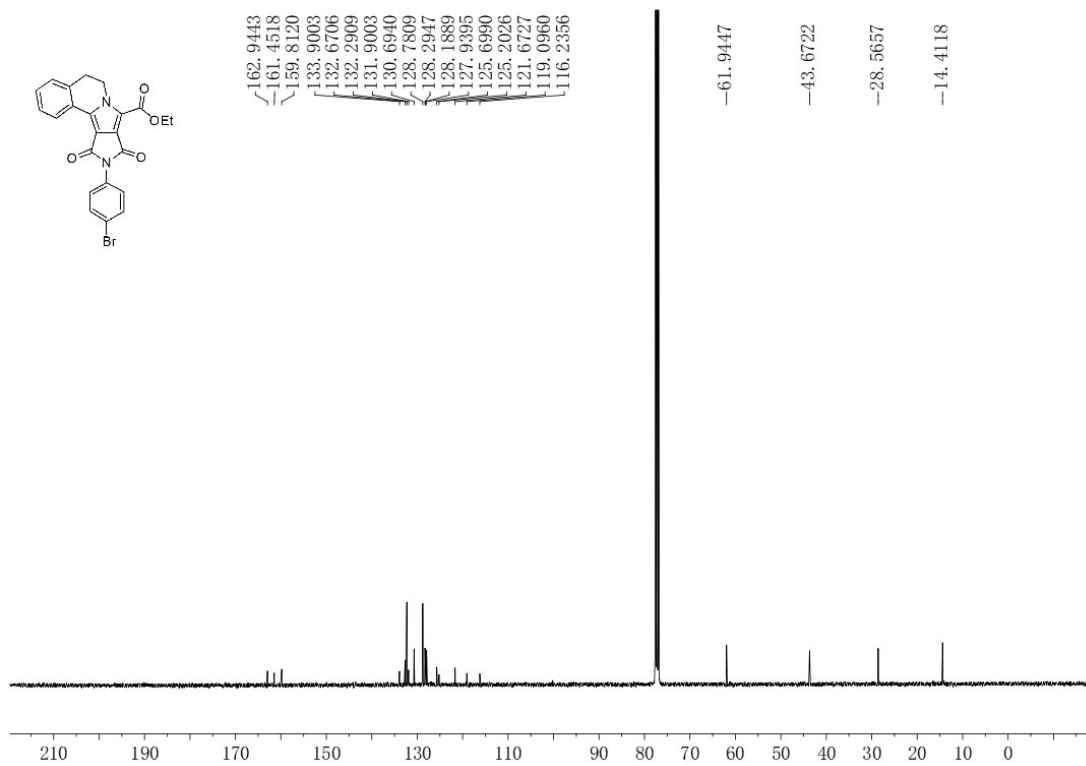
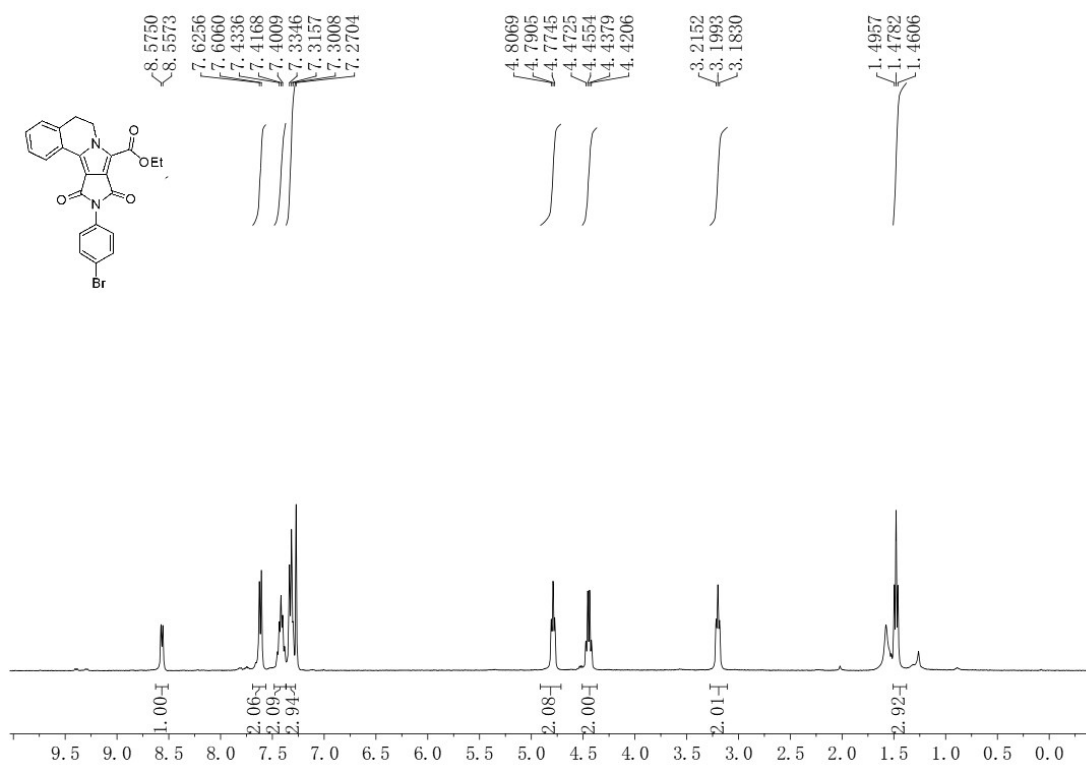
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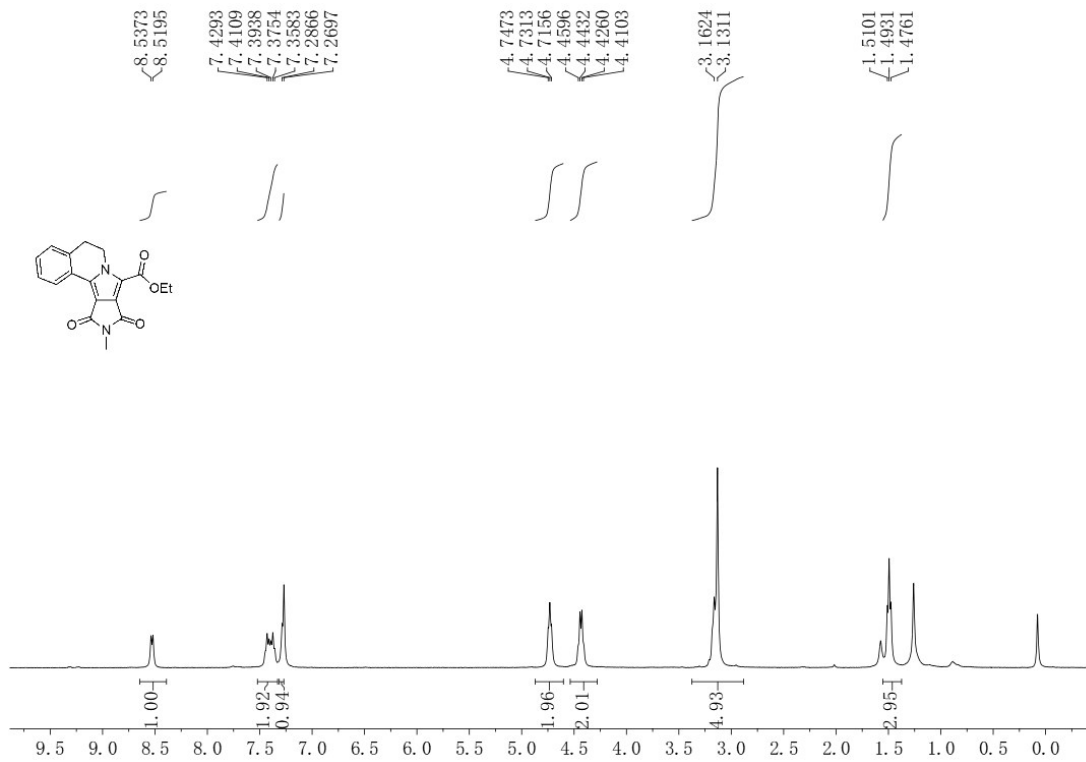


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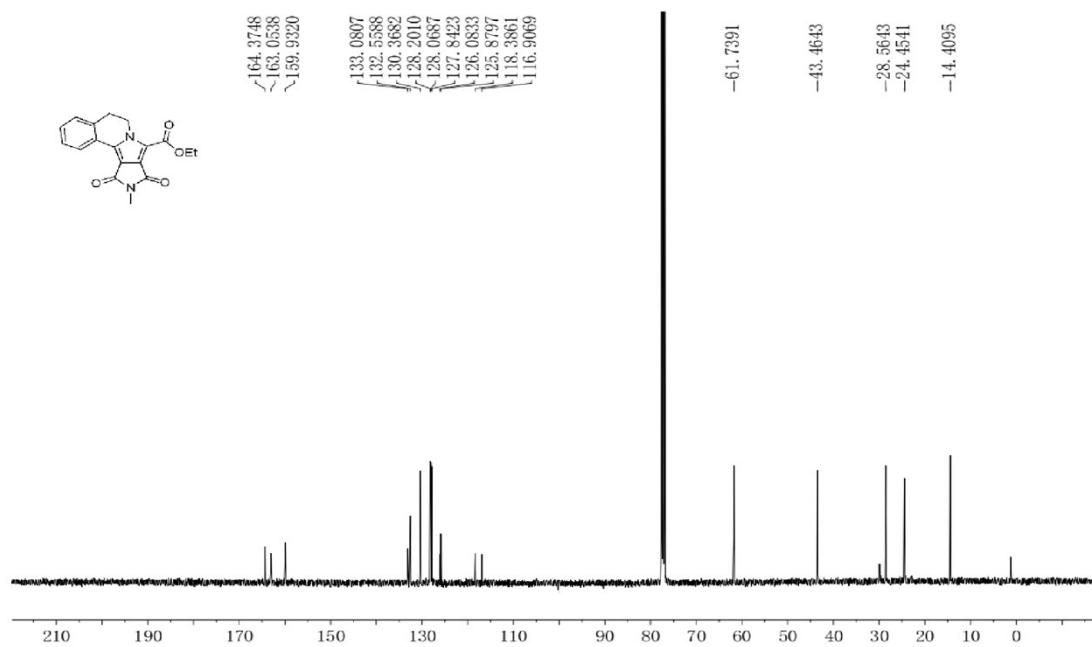




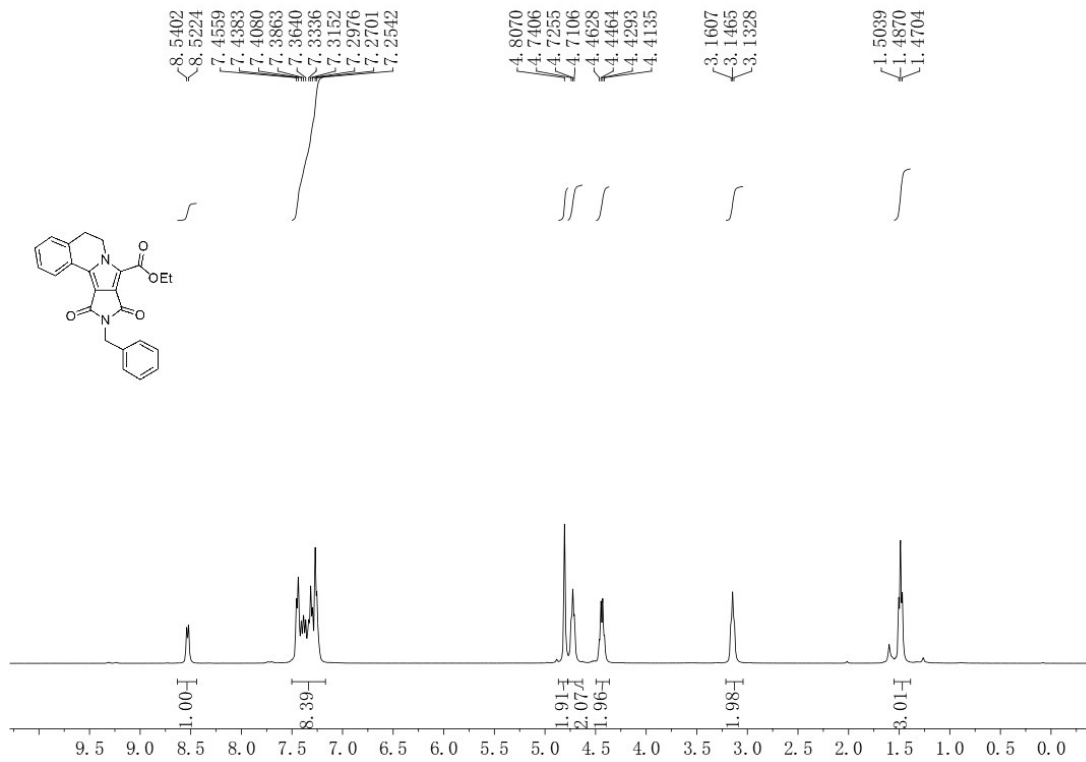




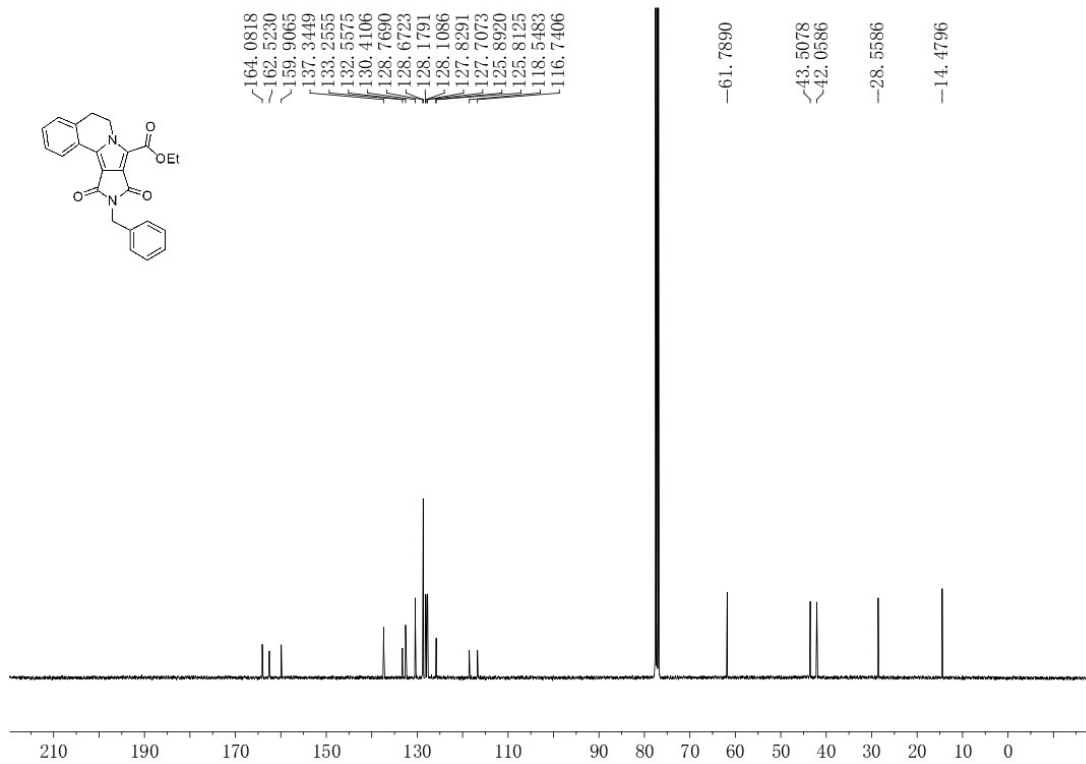
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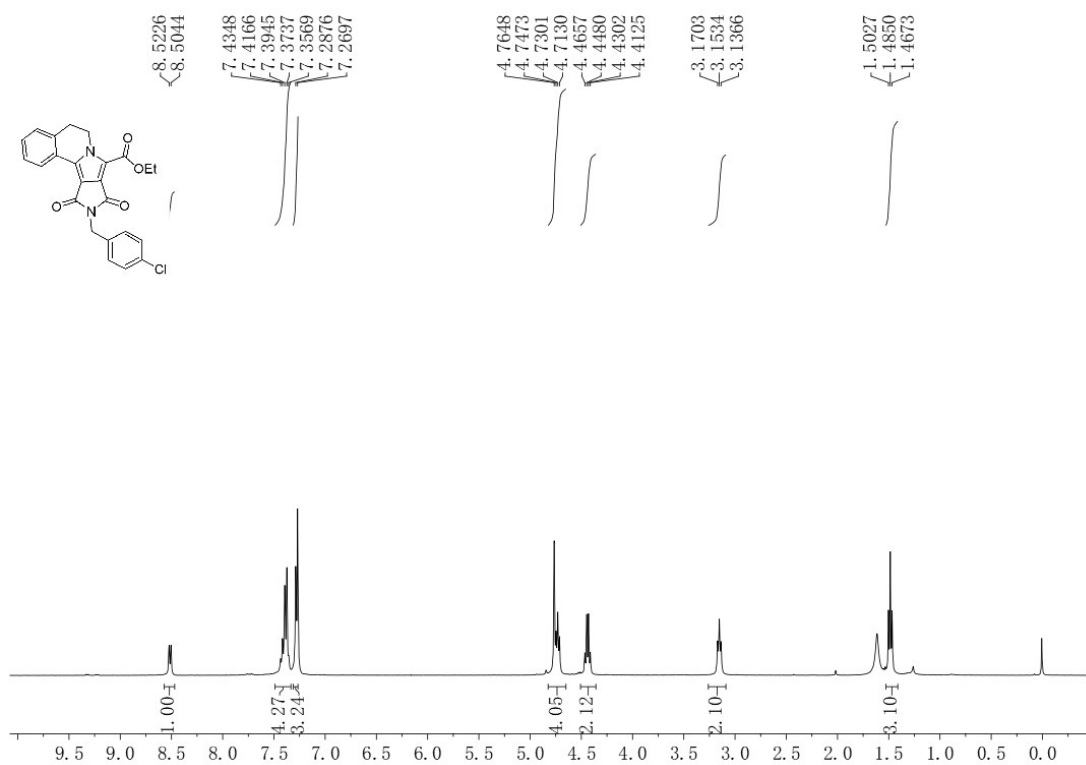
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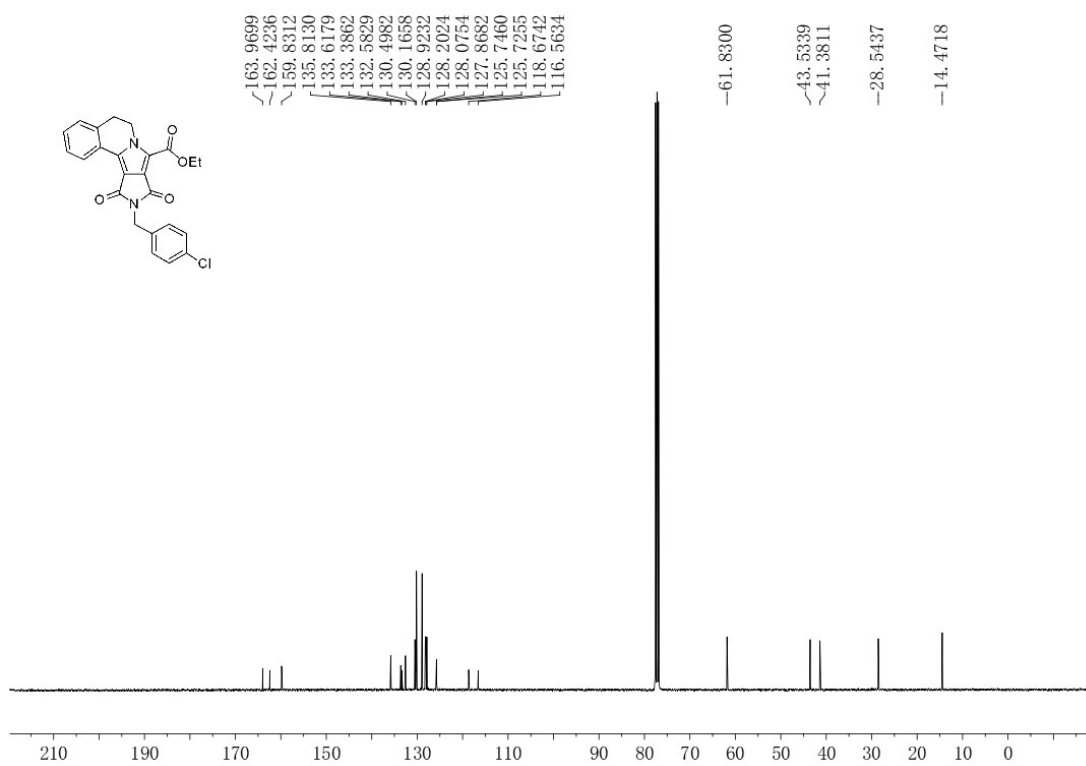
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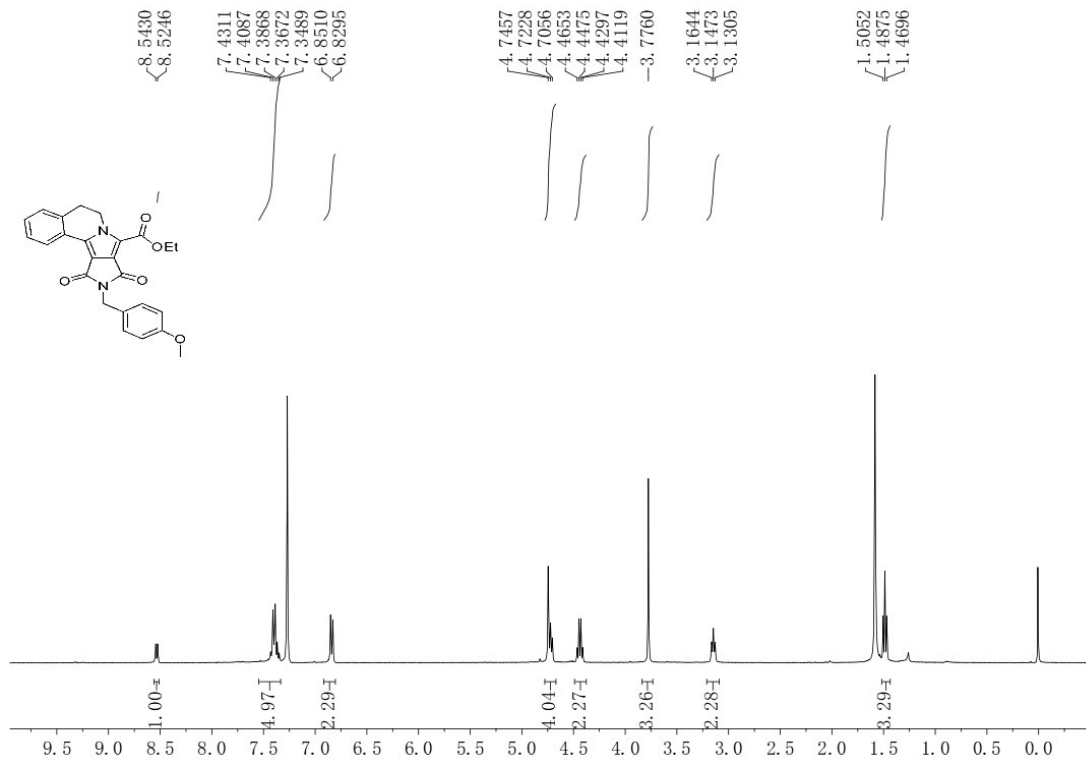
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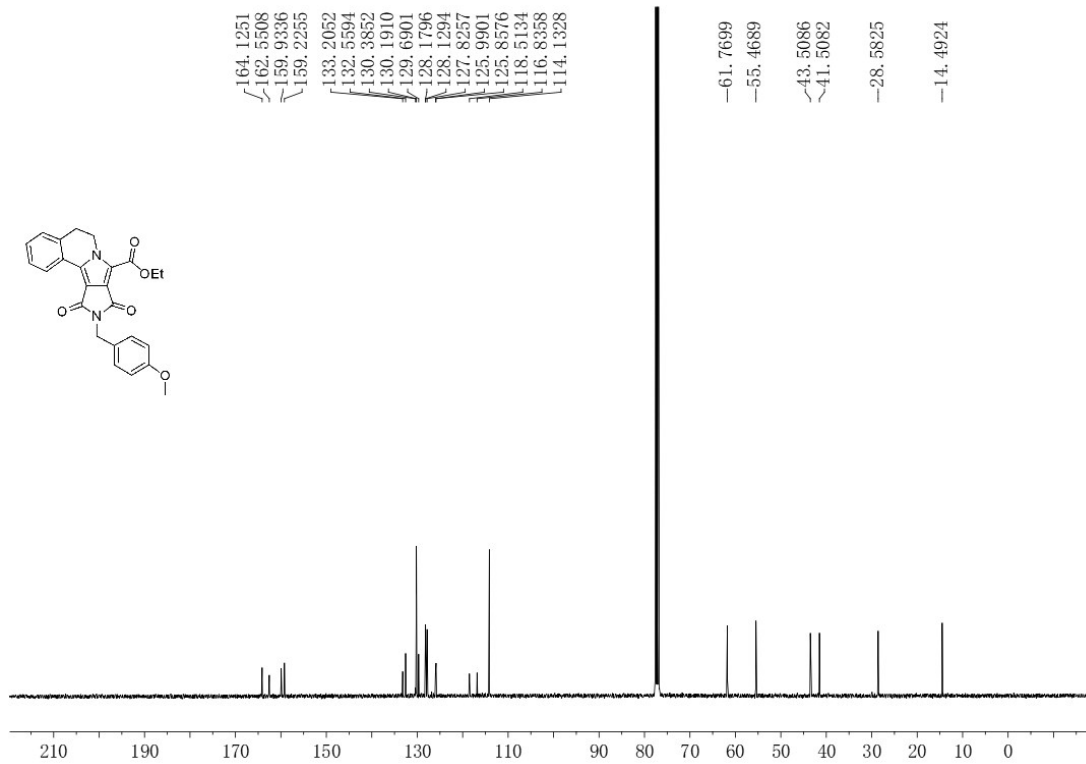
**<sup>1</sup>H NMR of 3k**



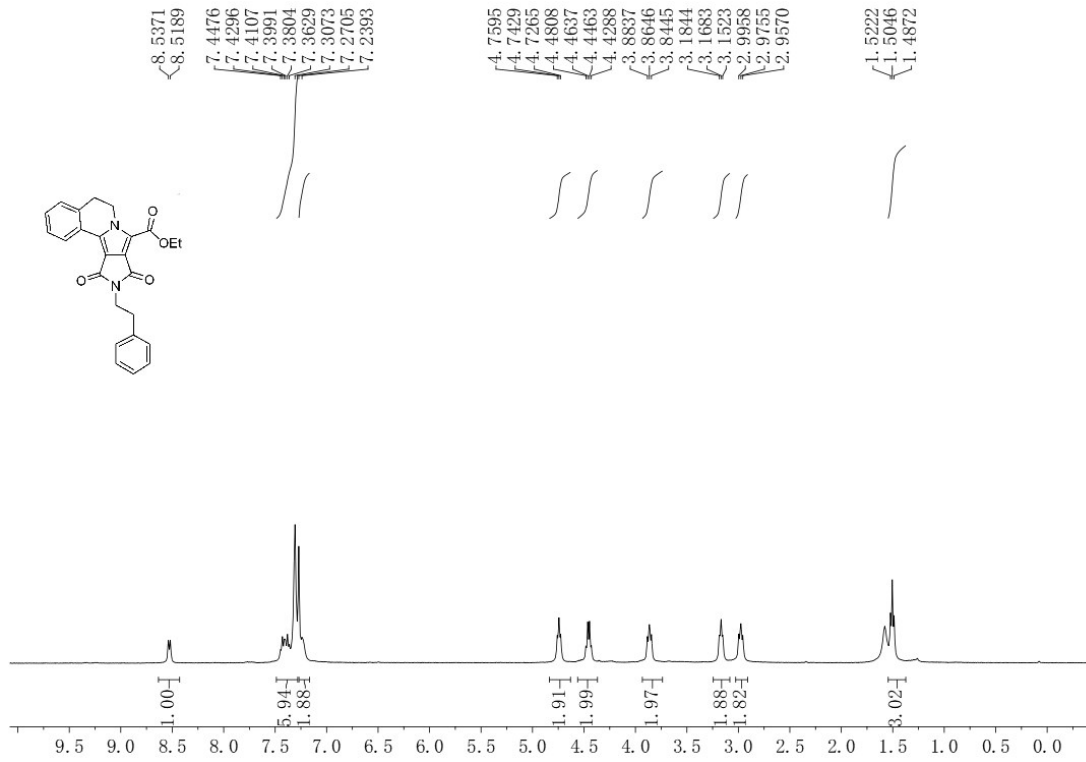
**<sup>13</sup>C NMR of 3k**



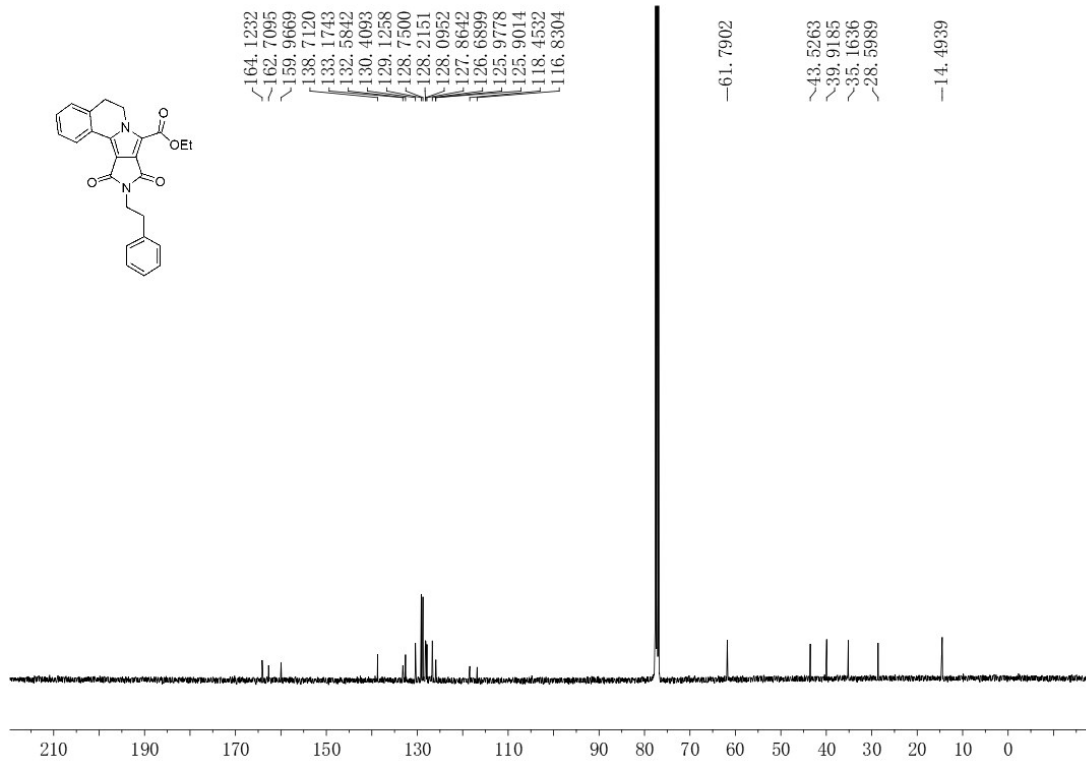
**<sup>1</sup>H NMR of 31**



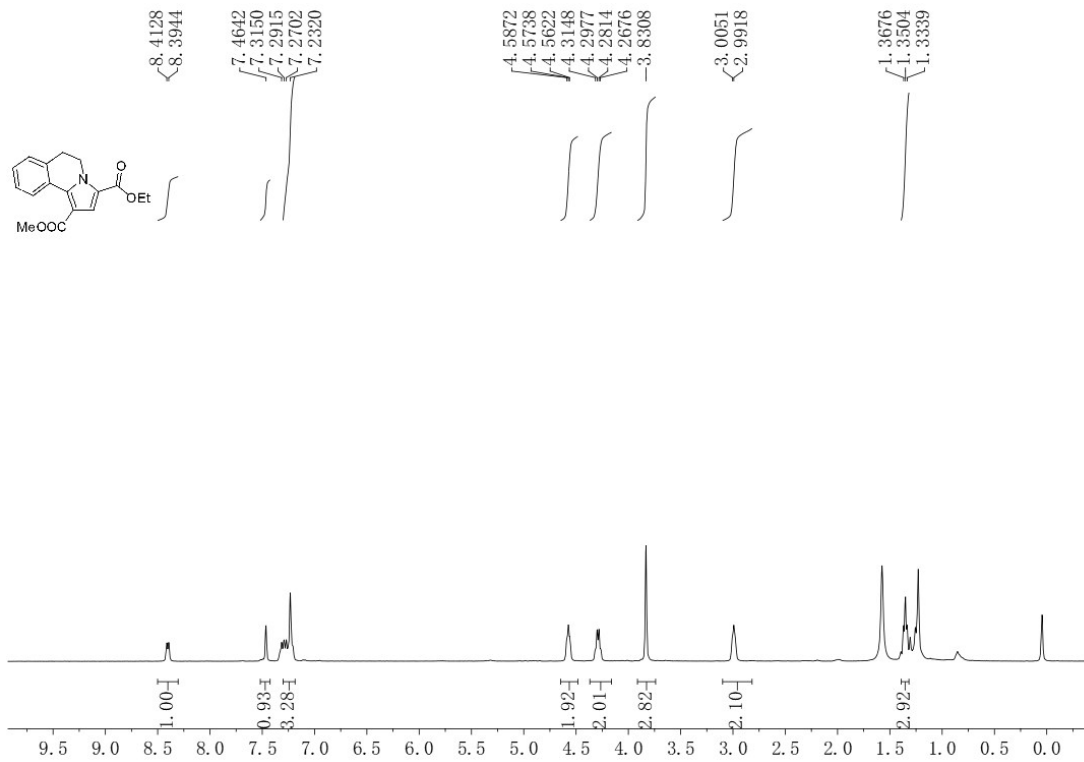
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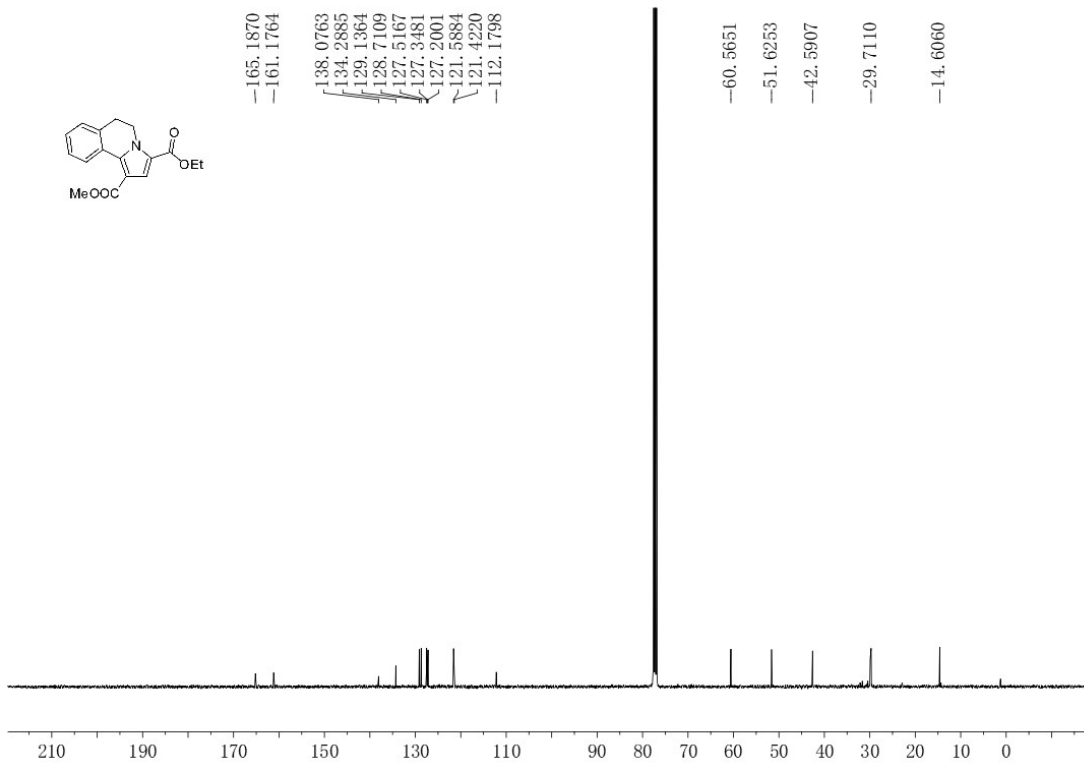
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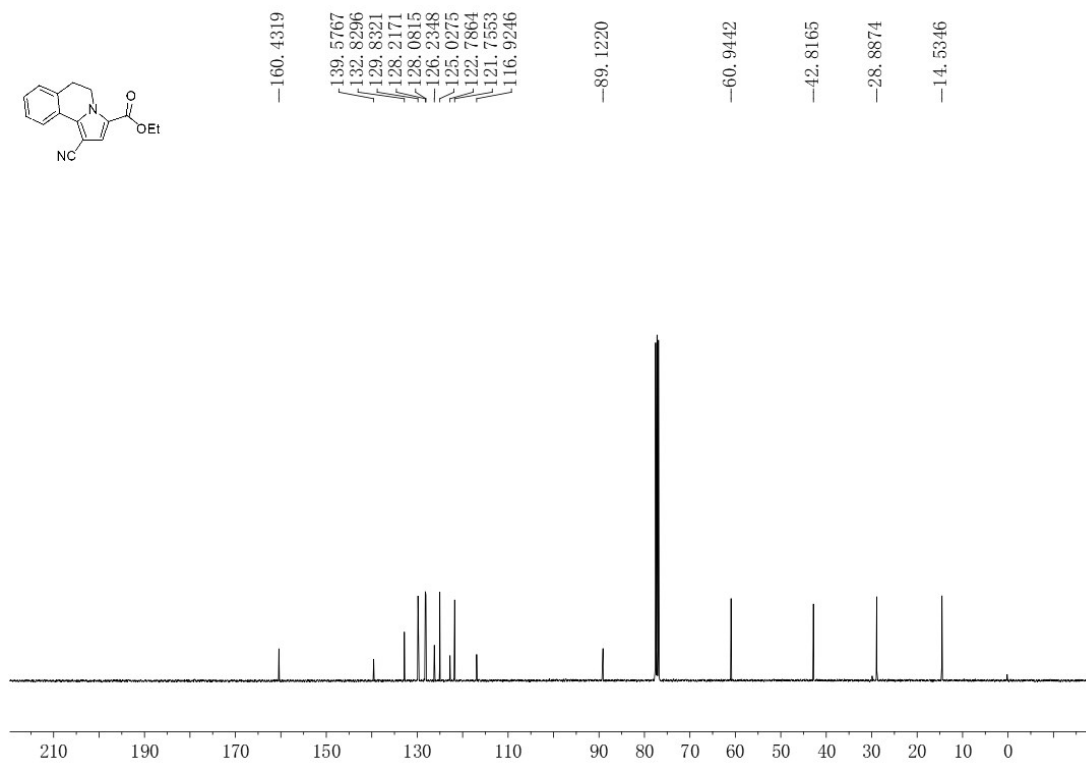
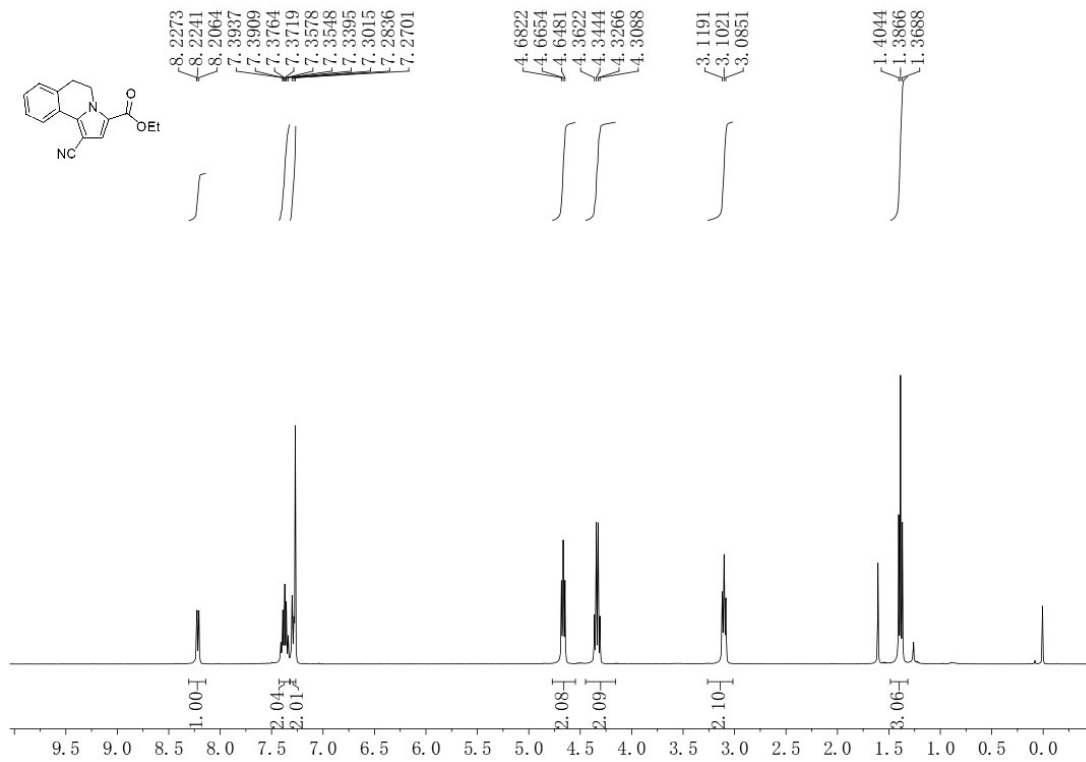
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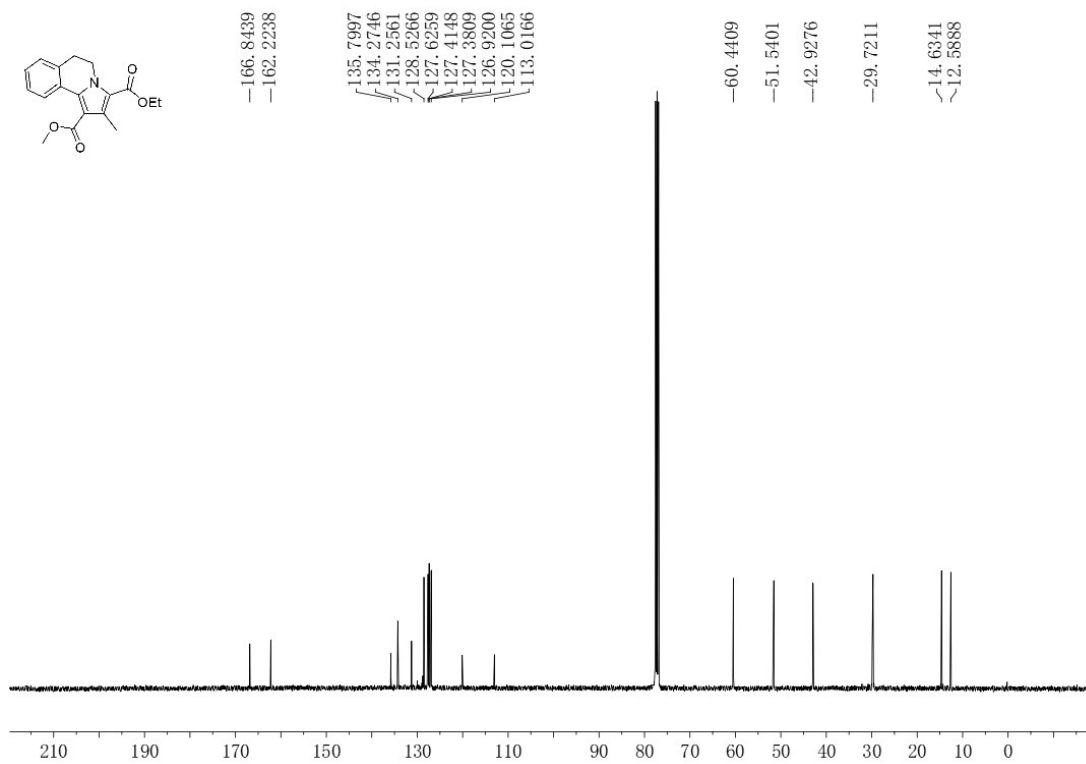
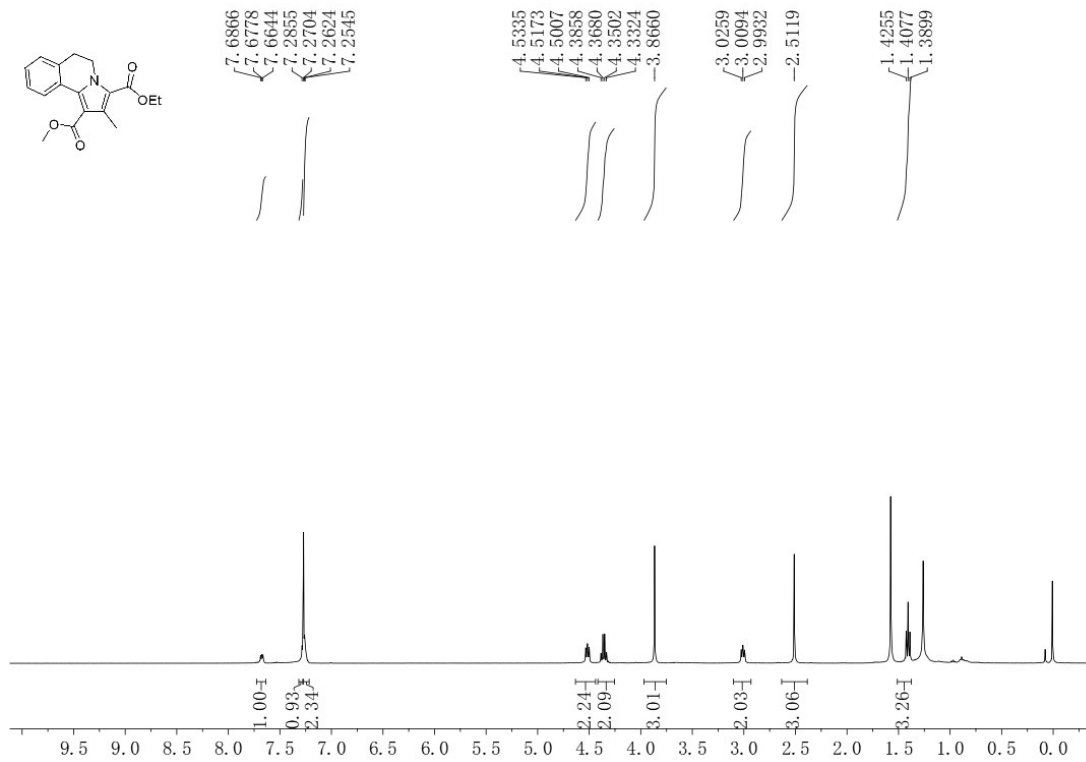
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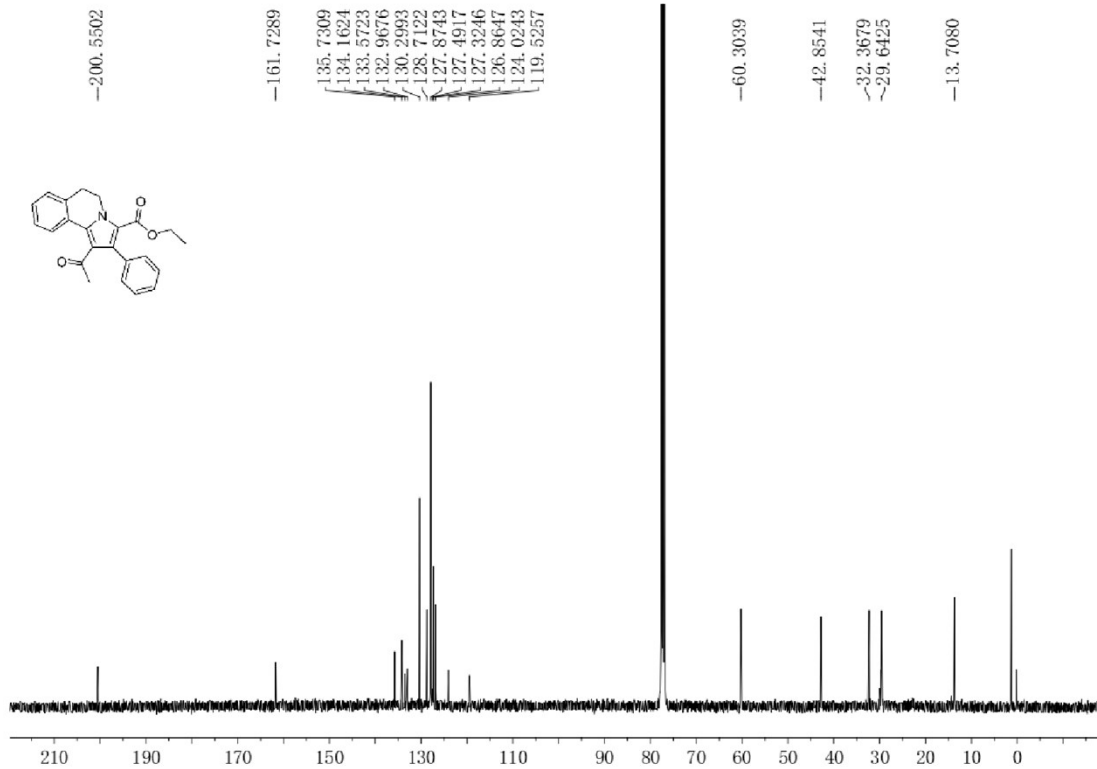
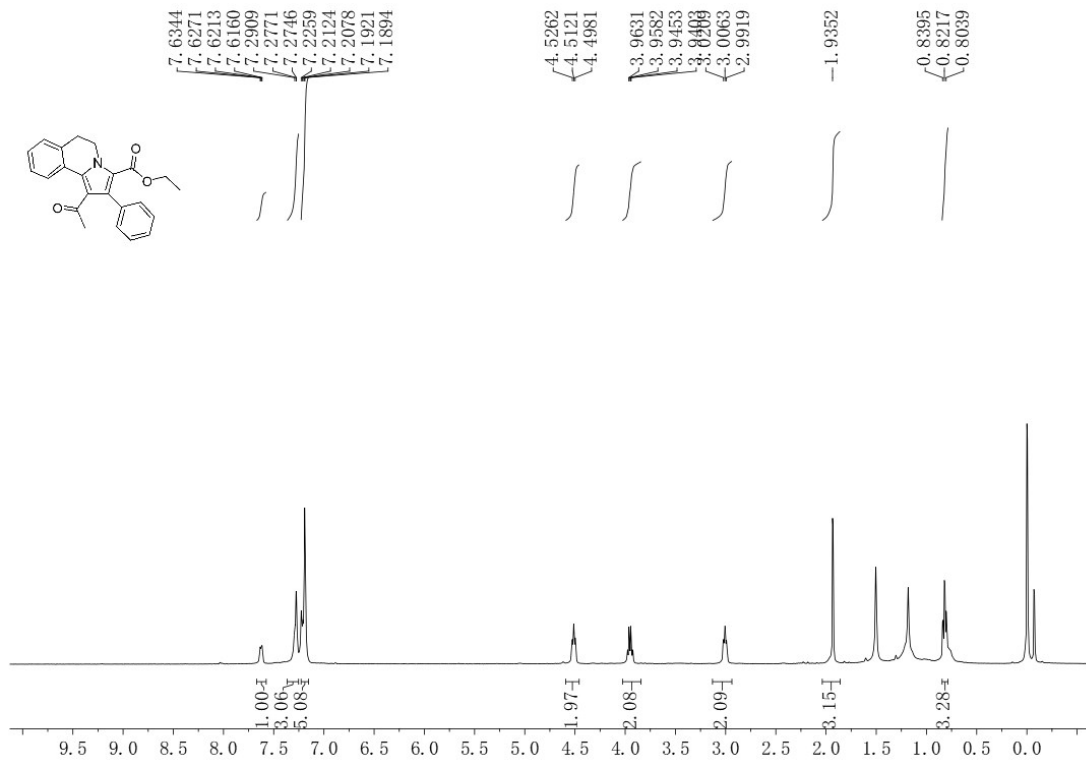


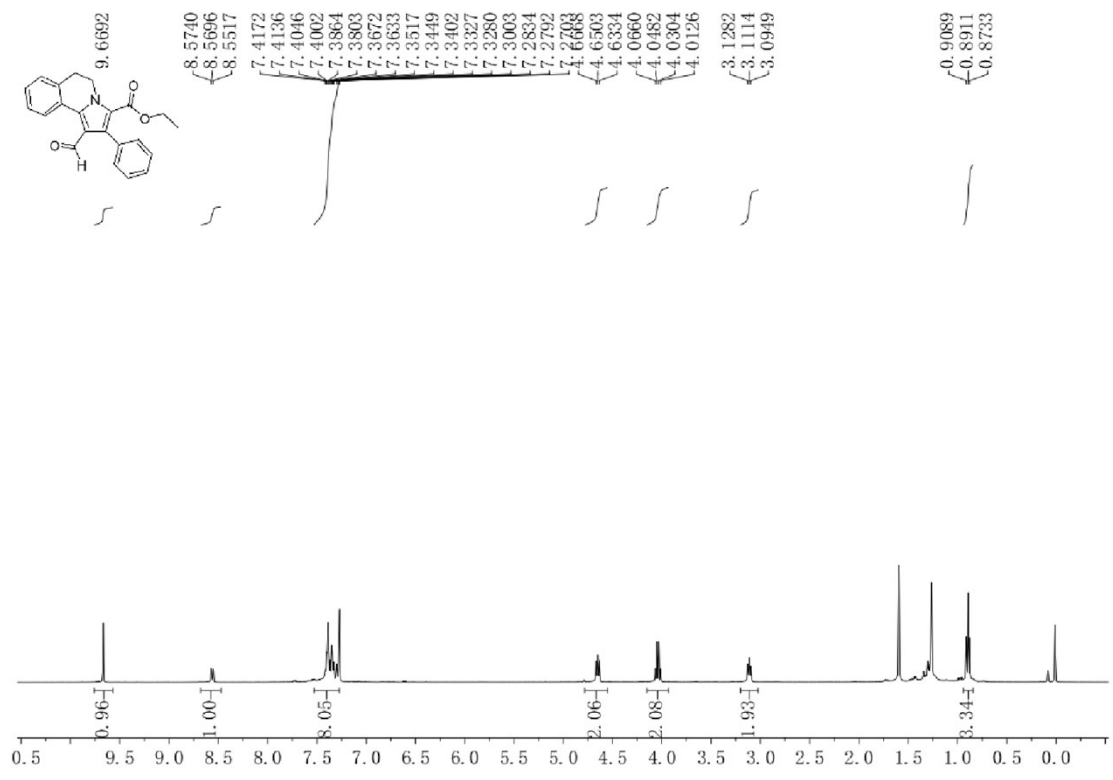
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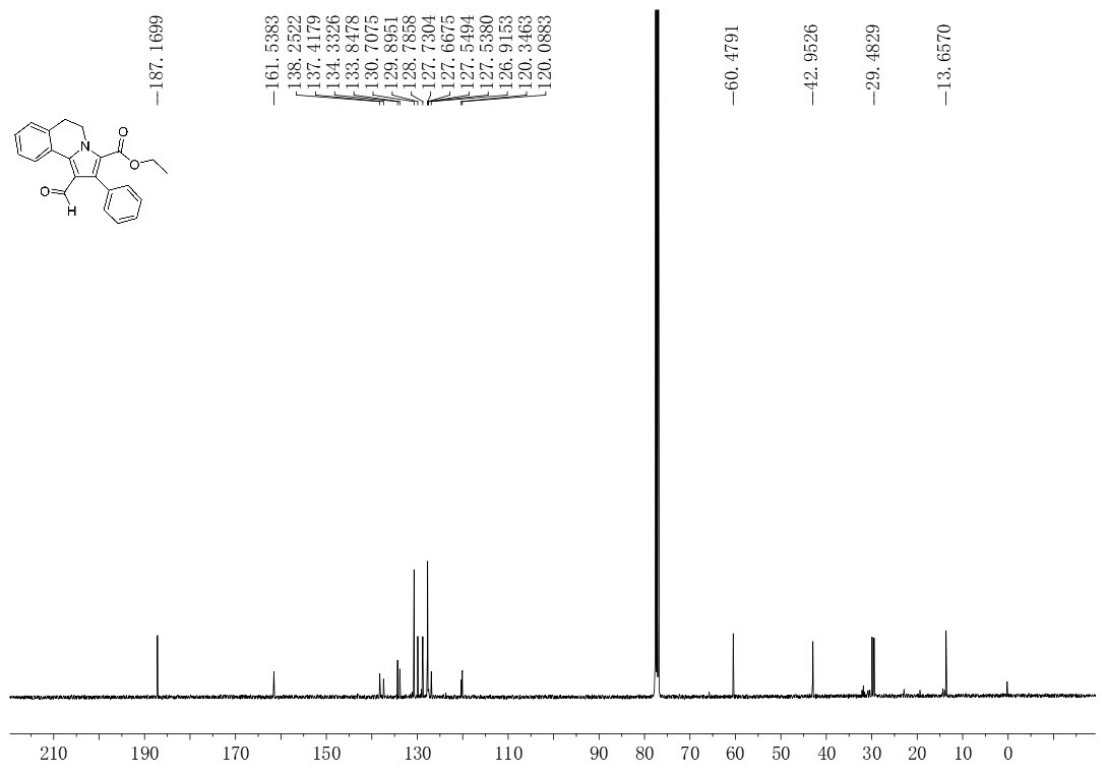




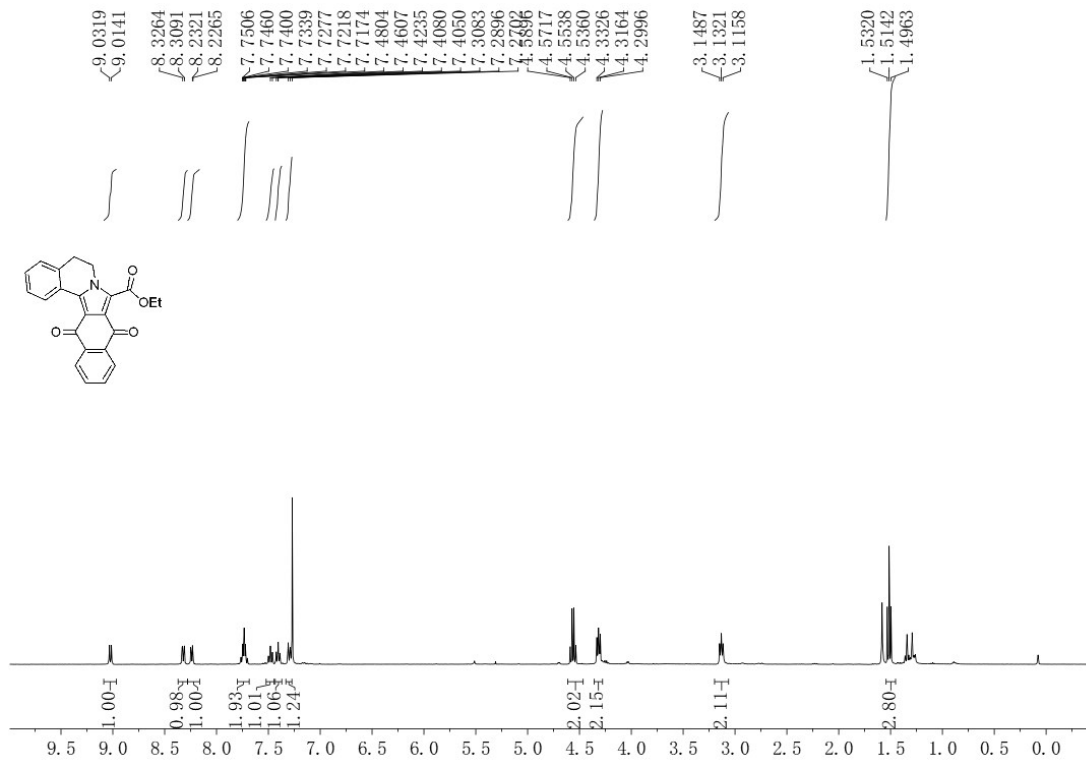




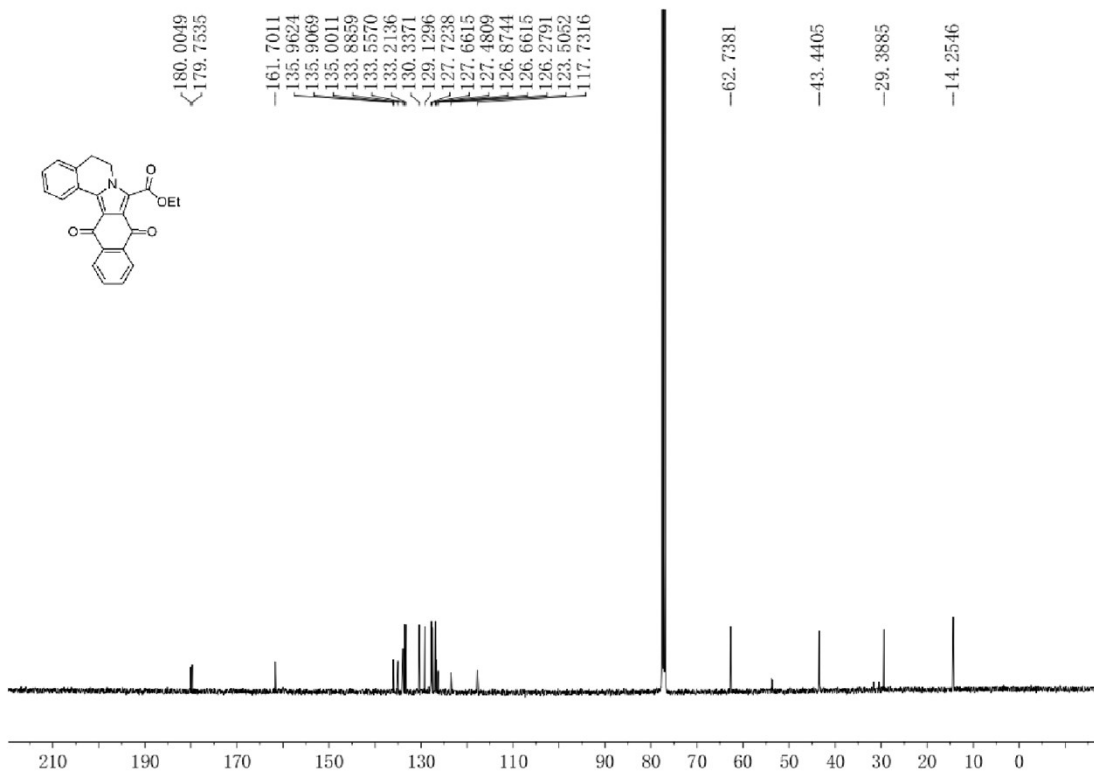
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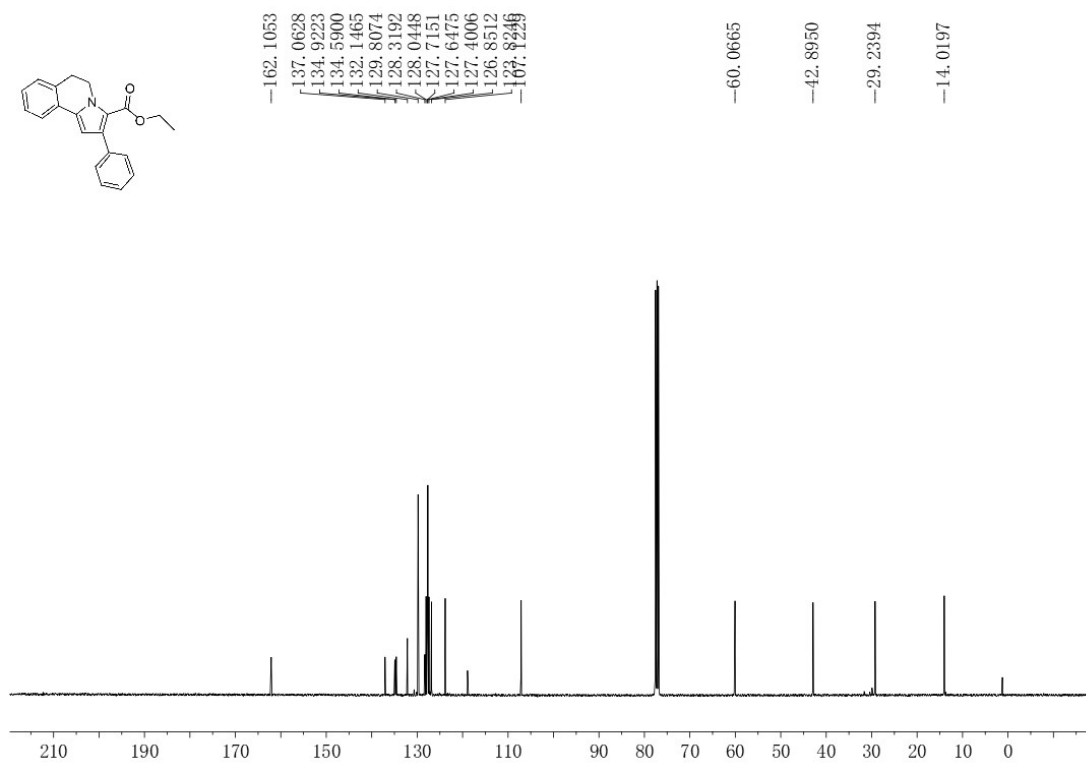
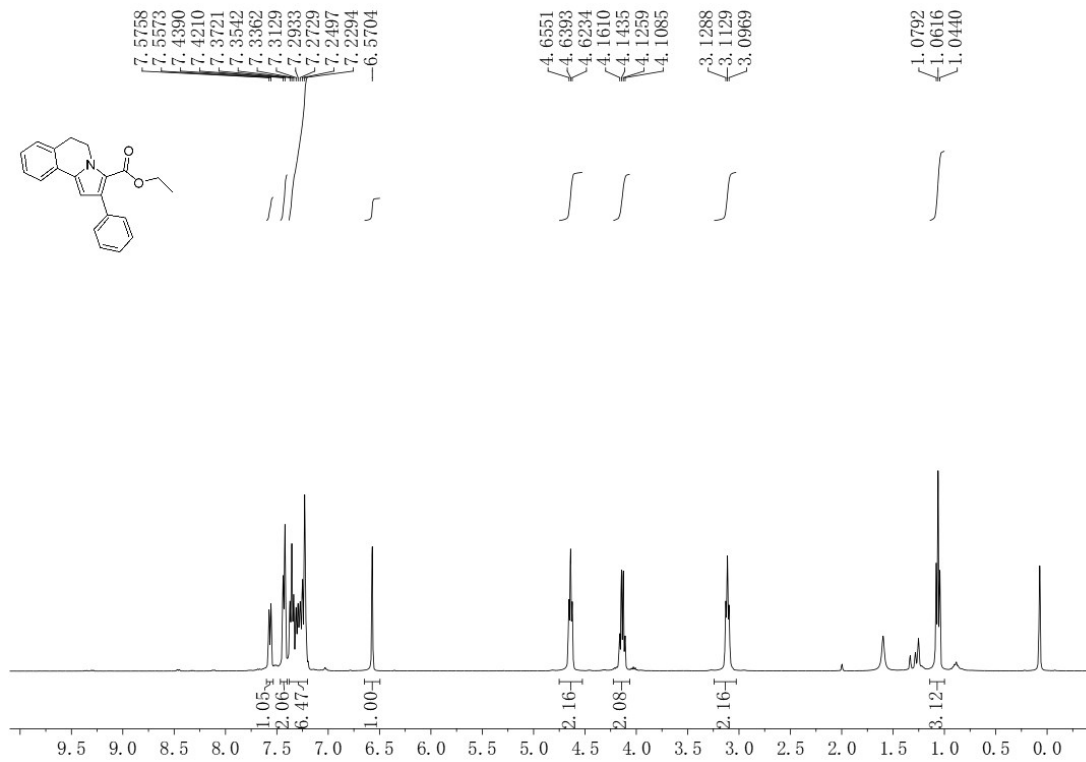
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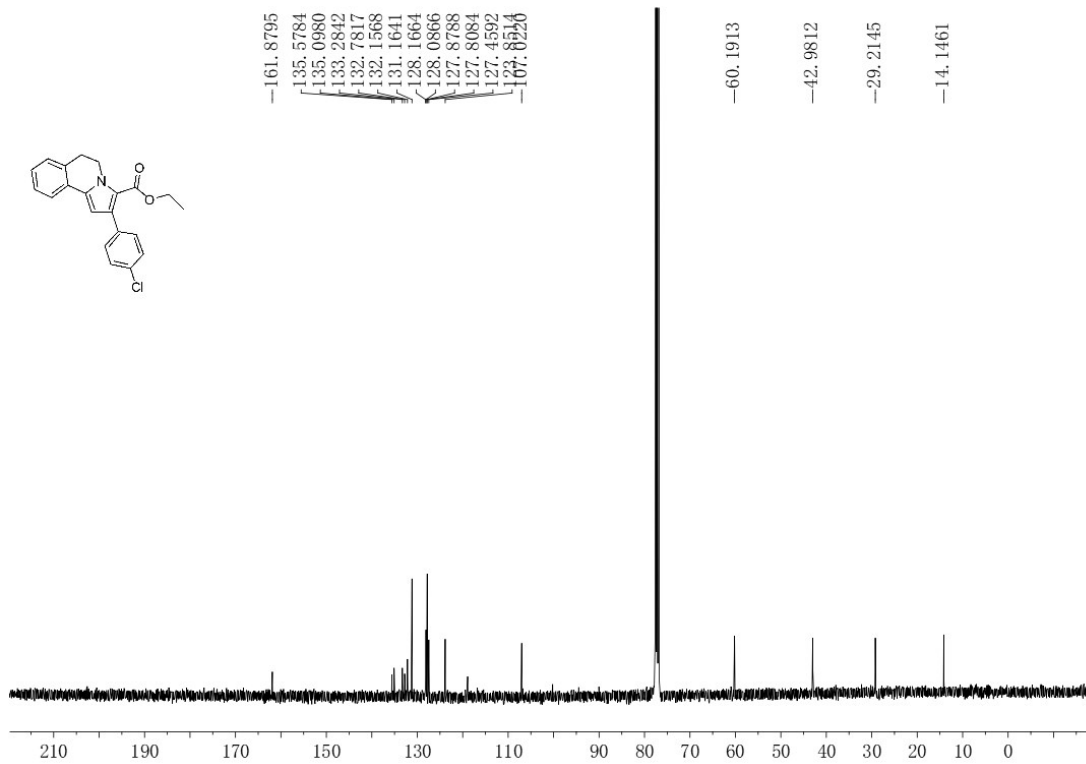
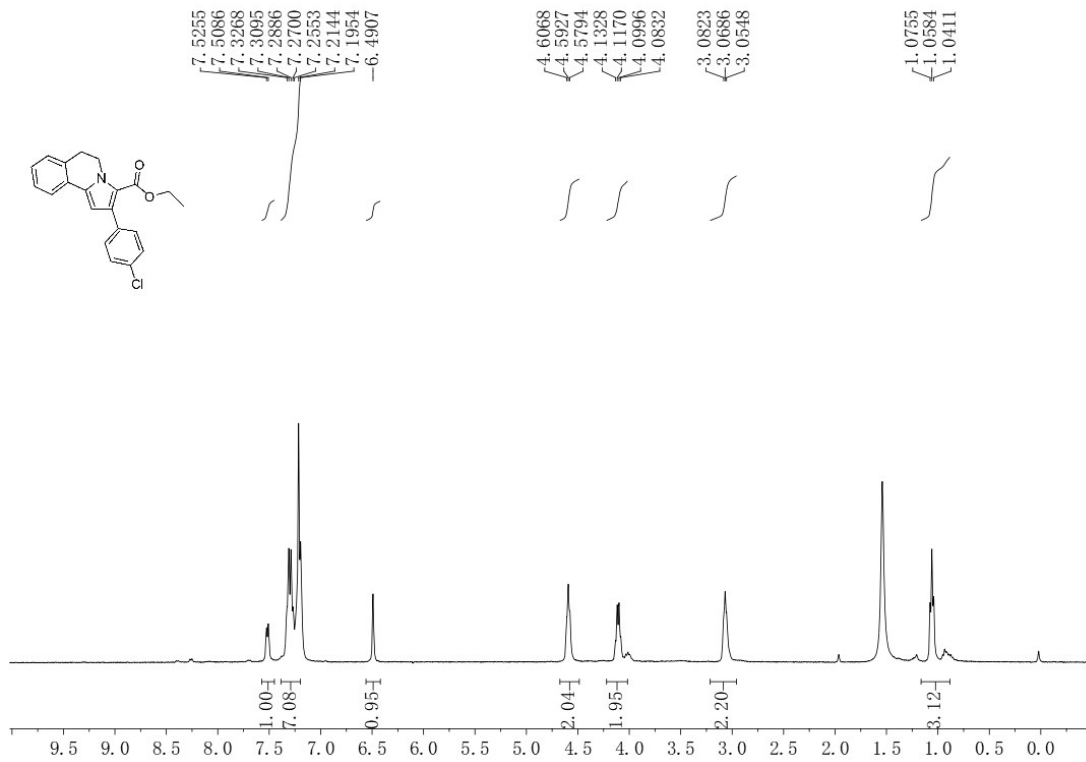


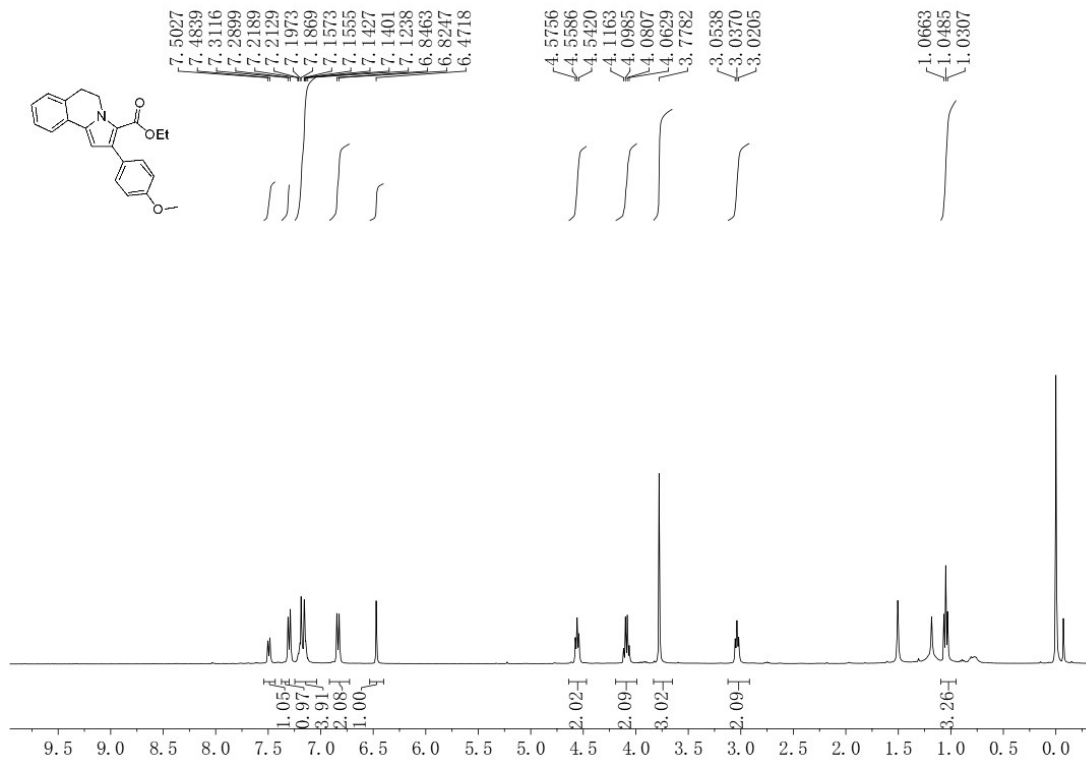
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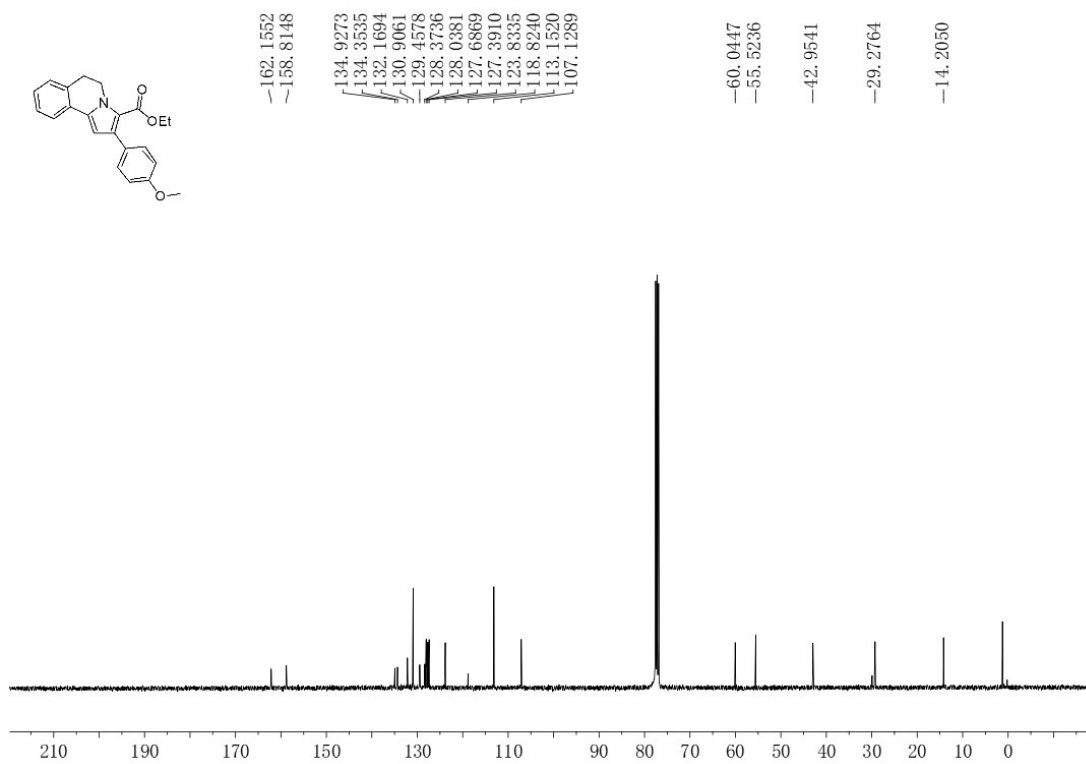
<sup>13</sup>C NMR of 3t



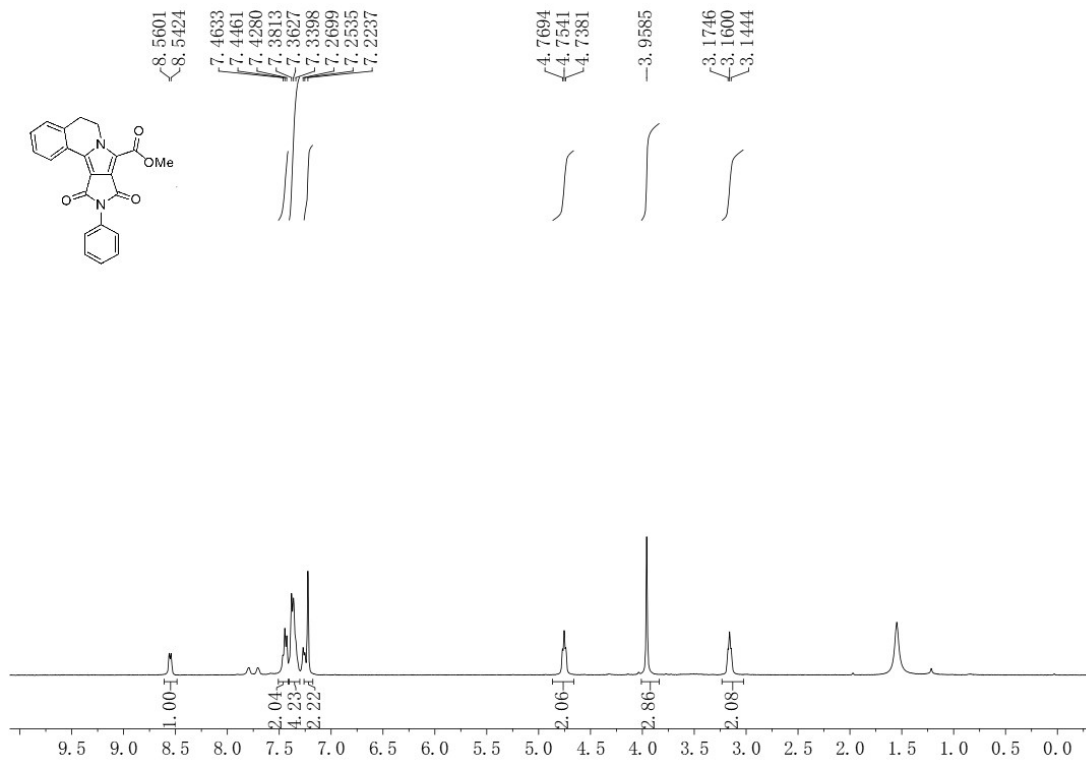




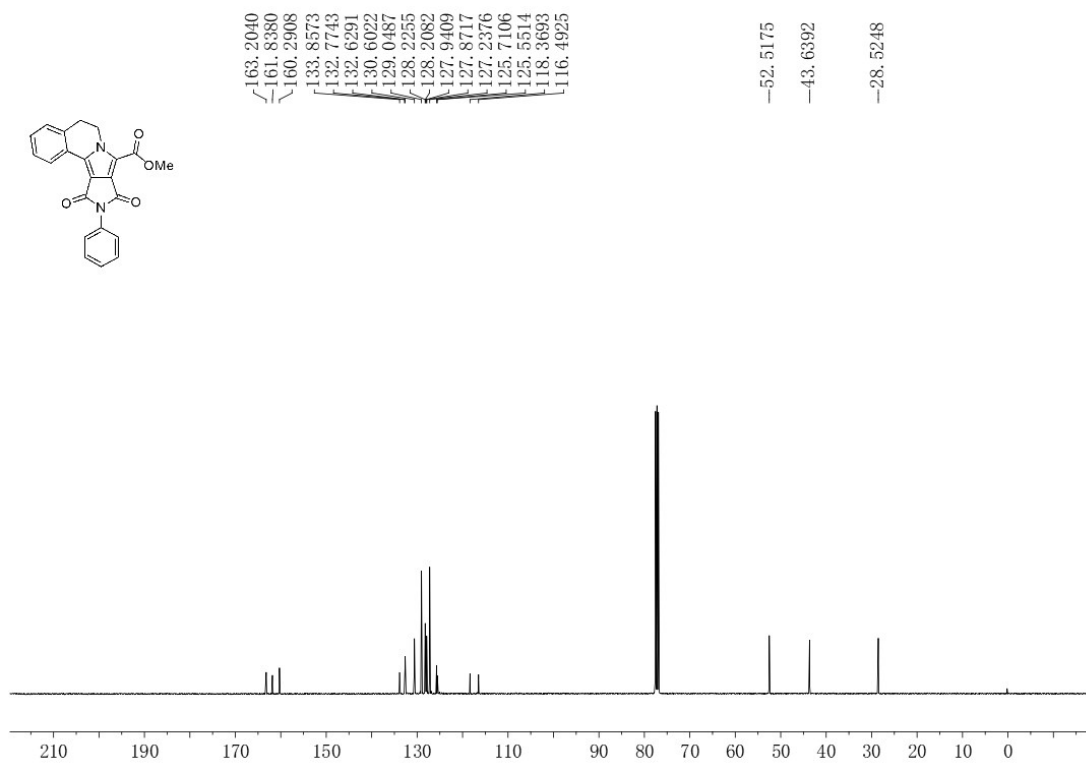
<sup>1</sup>H NMR of 5c



<sup>13</sup>C NMR of 5c

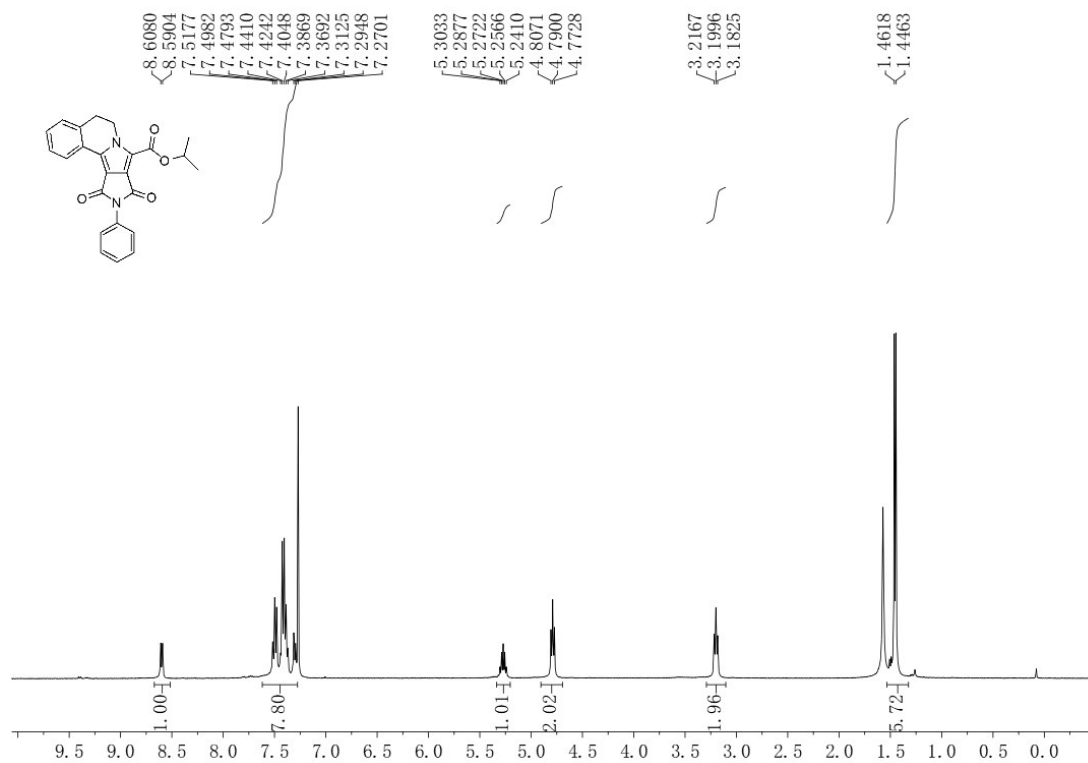


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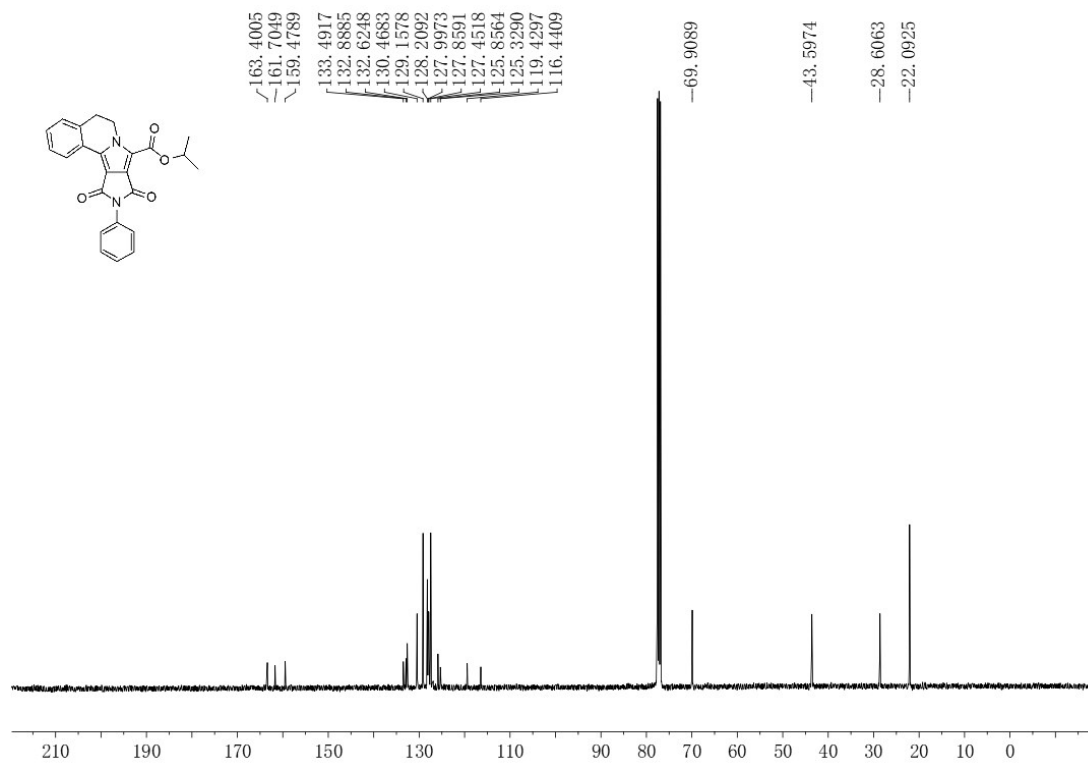


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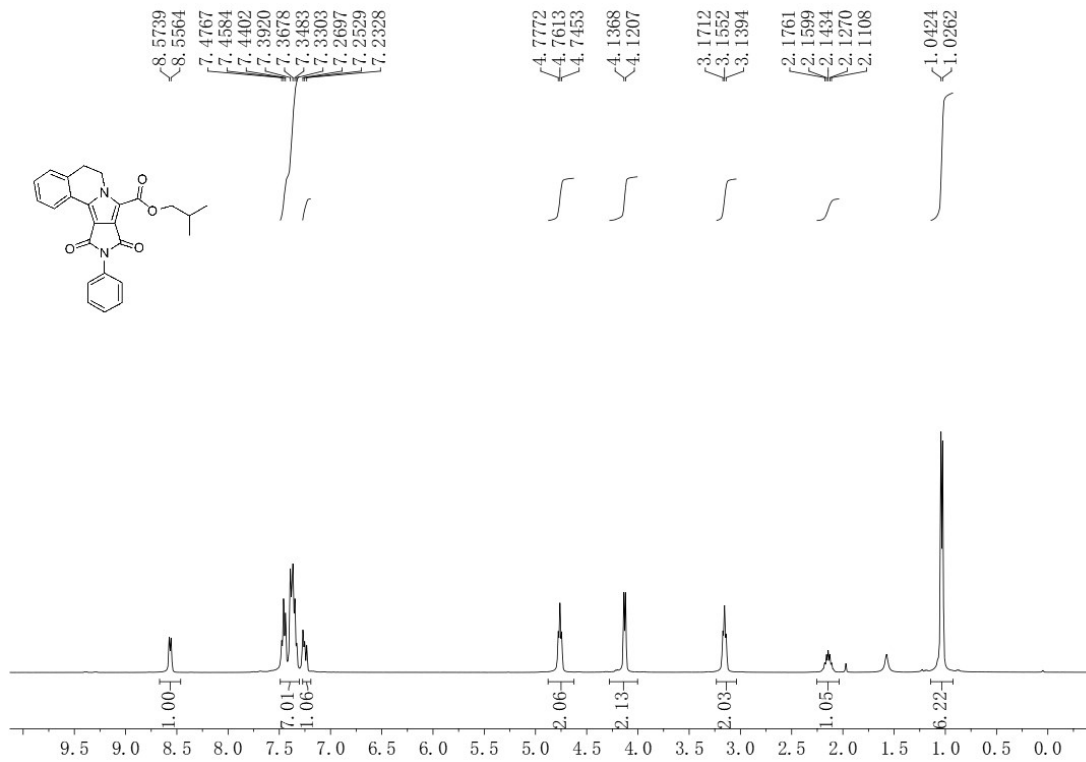




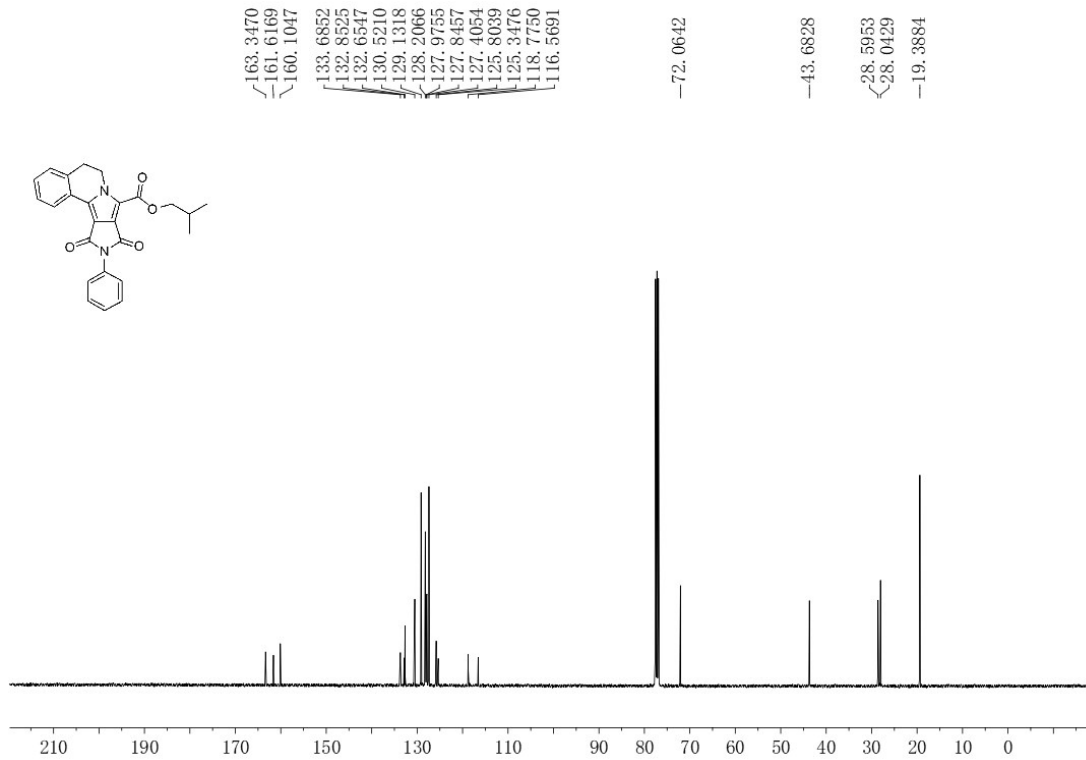
<sup>1</sup>H NMR of 6c



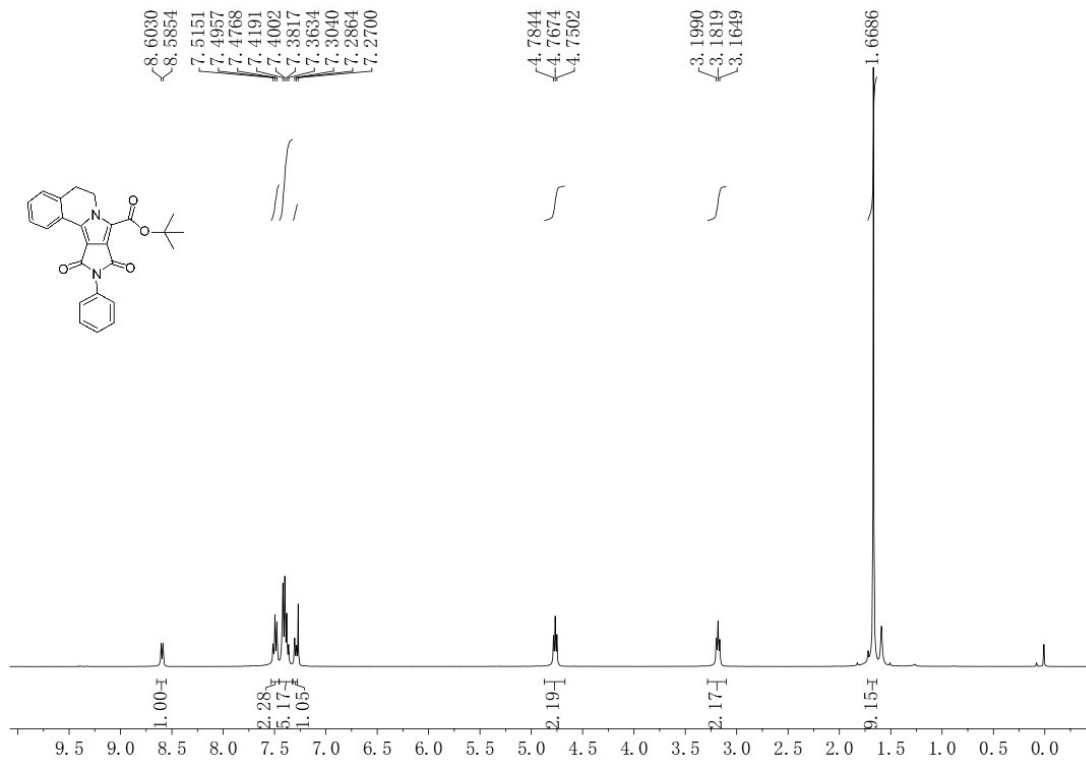
<sup>13</sup>C NMR of 6c



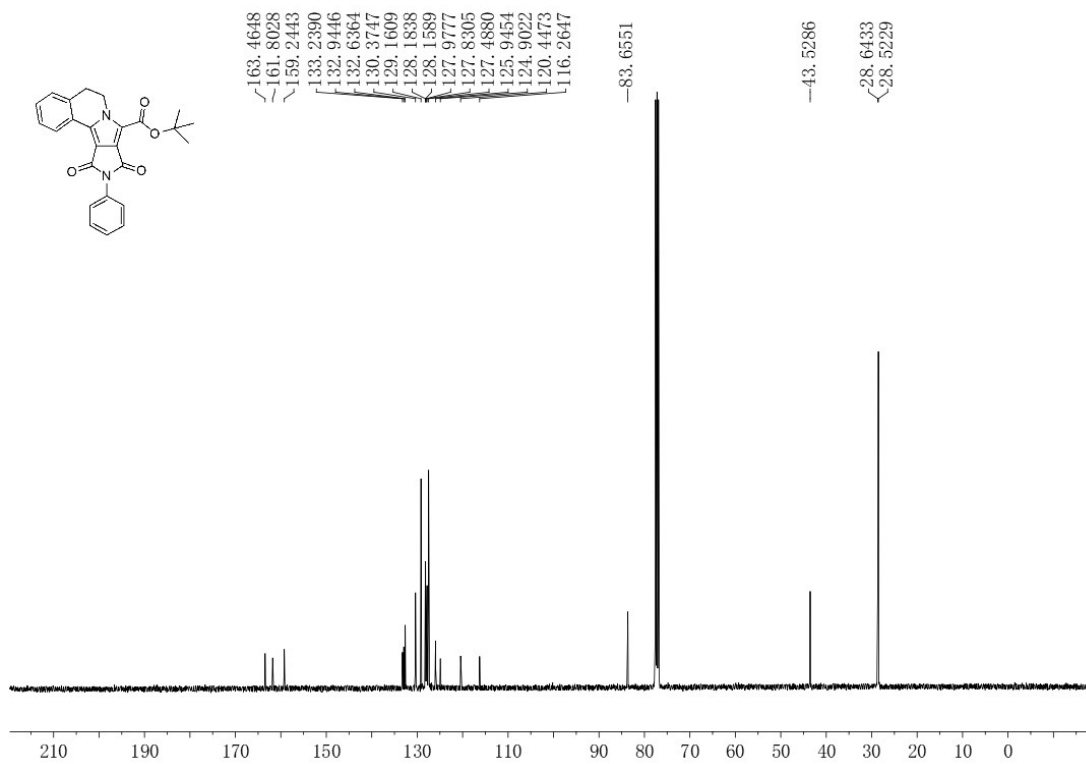
<sup>1</sup>H NMR of 6d



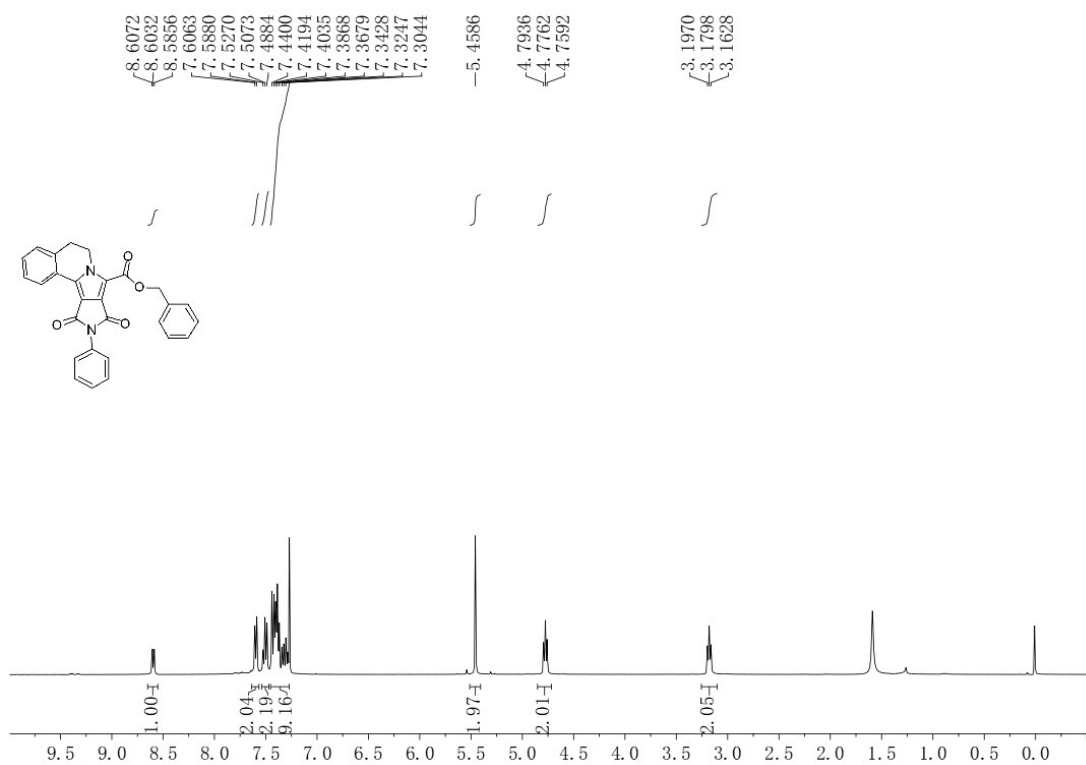
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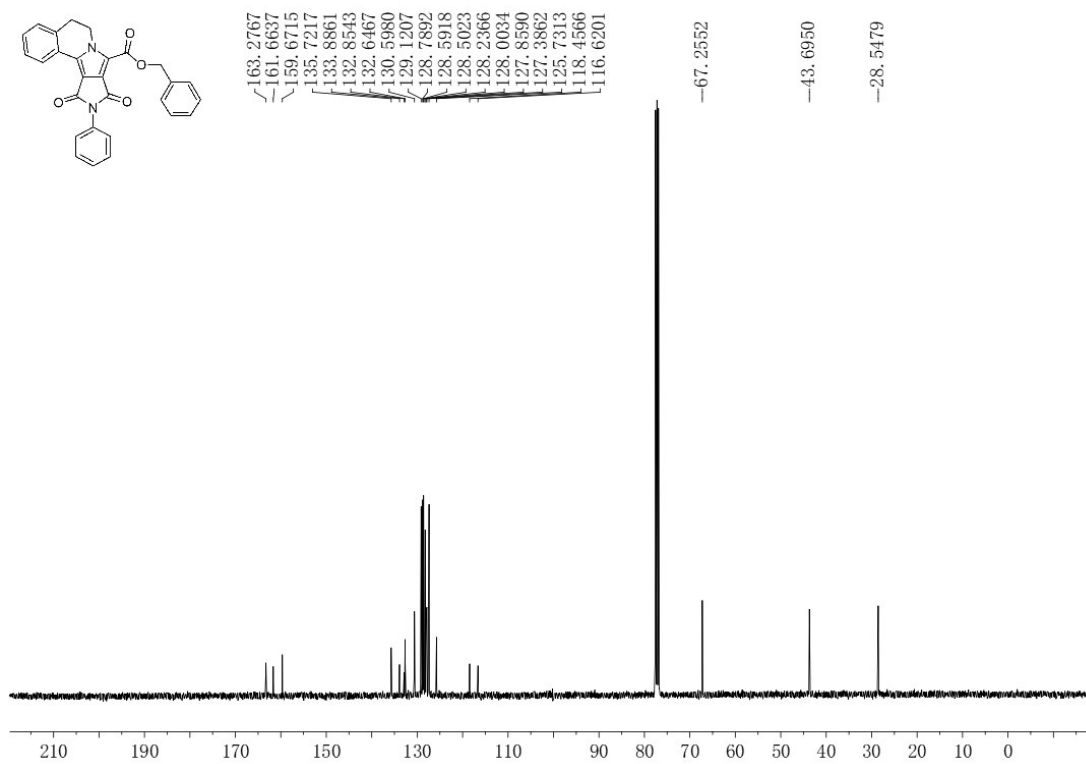
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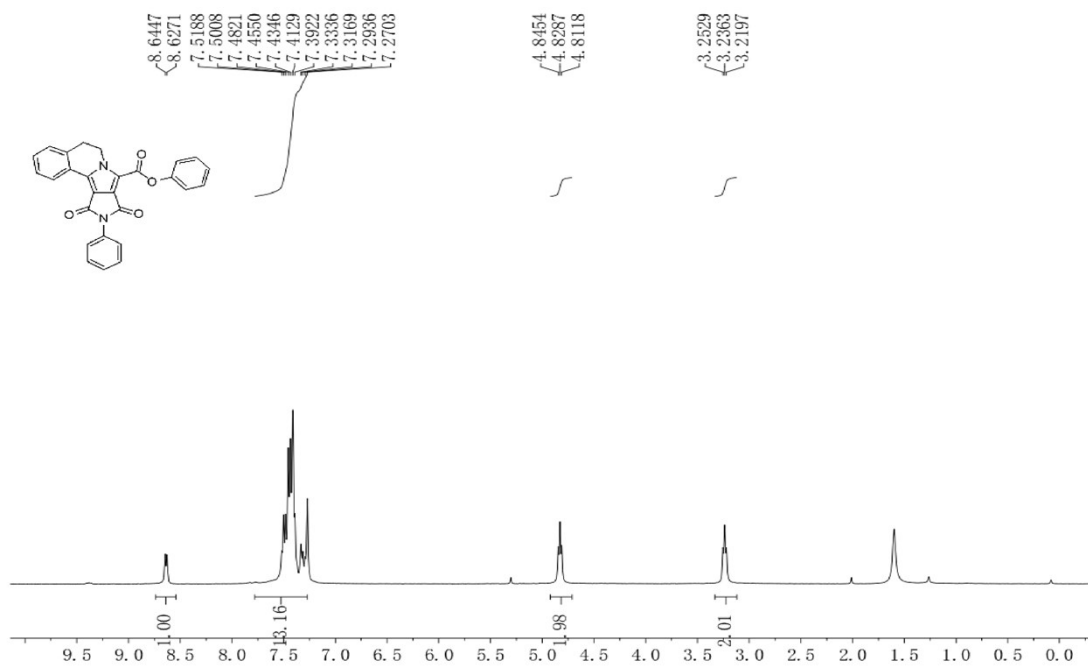
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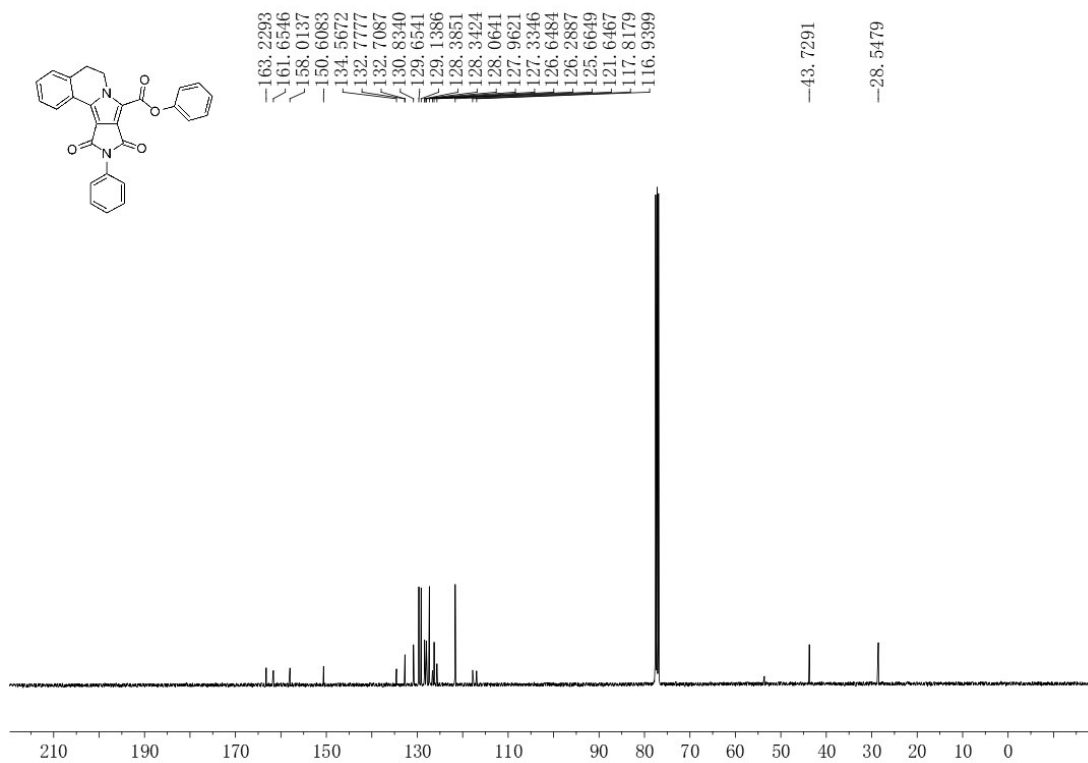
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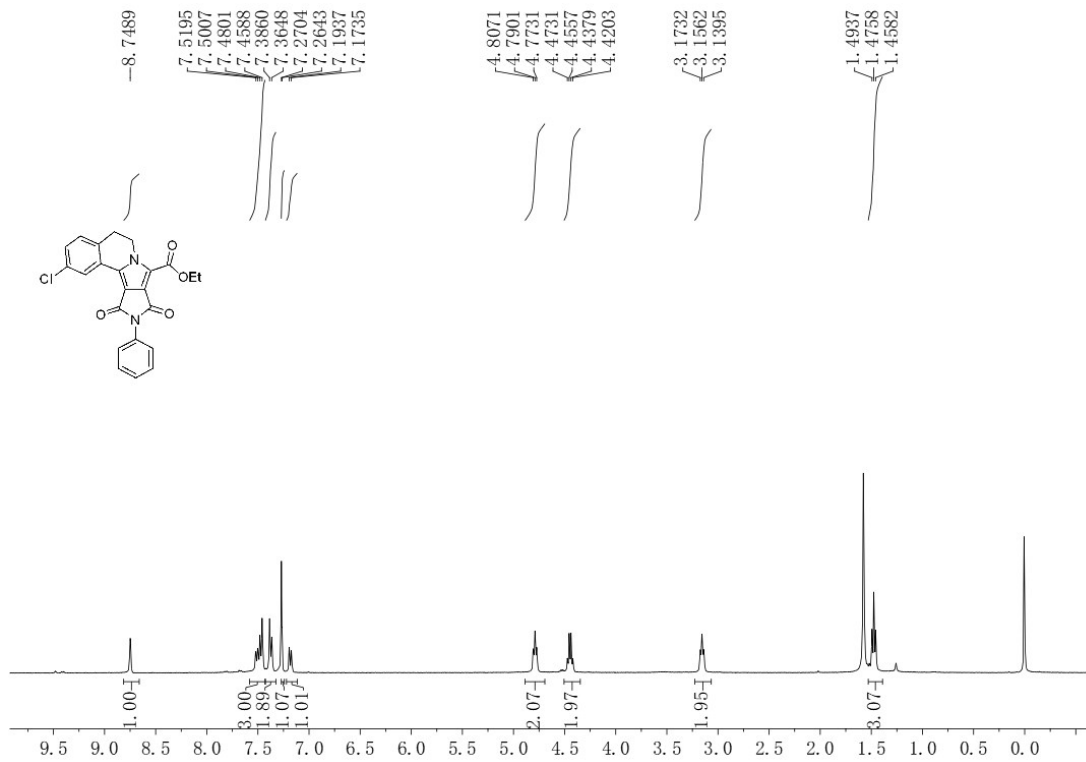
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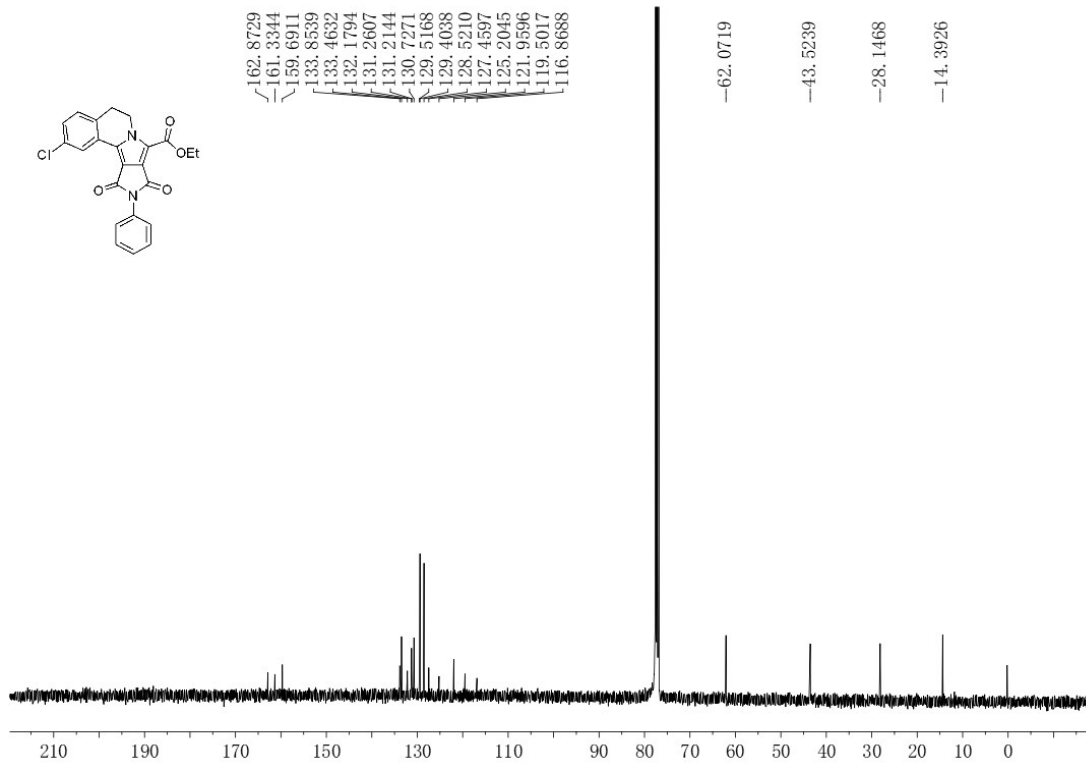
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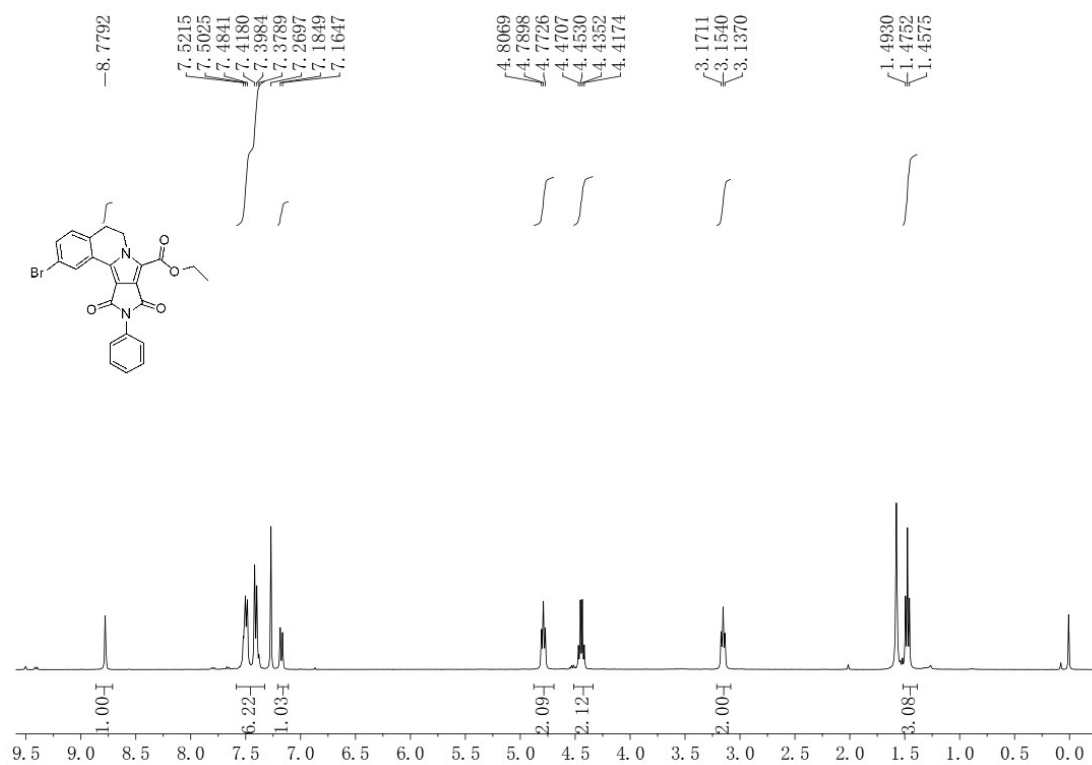
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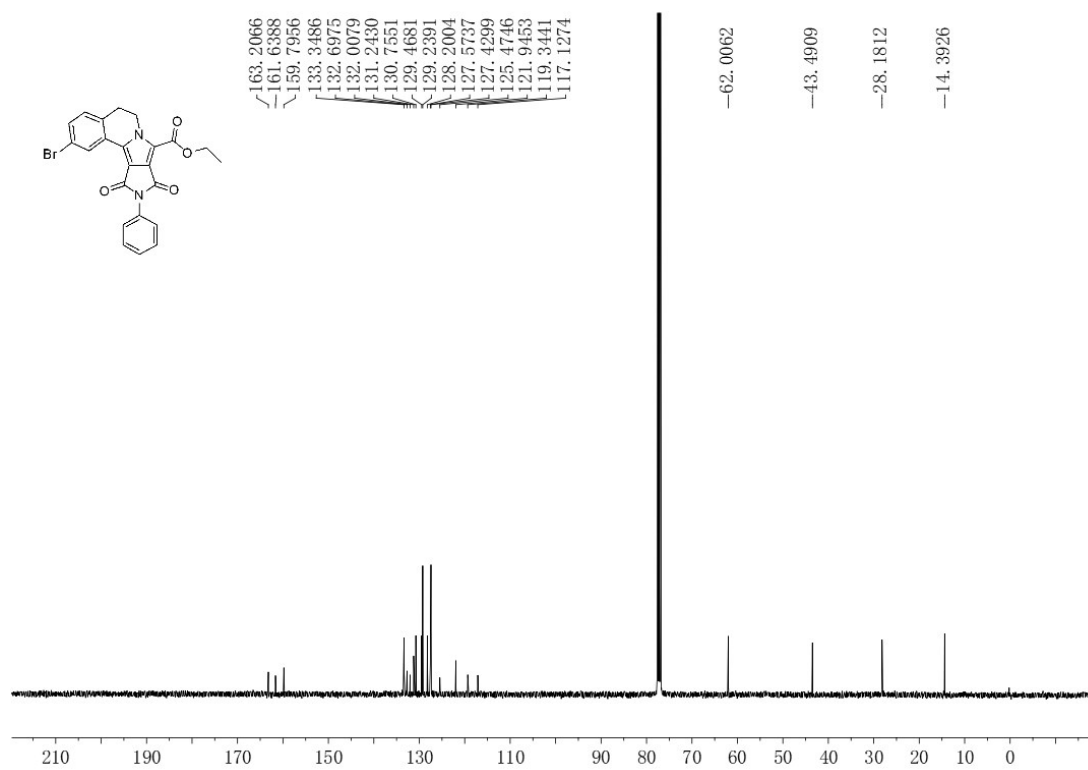
**<sup>1</sup>H NMR of 6h**



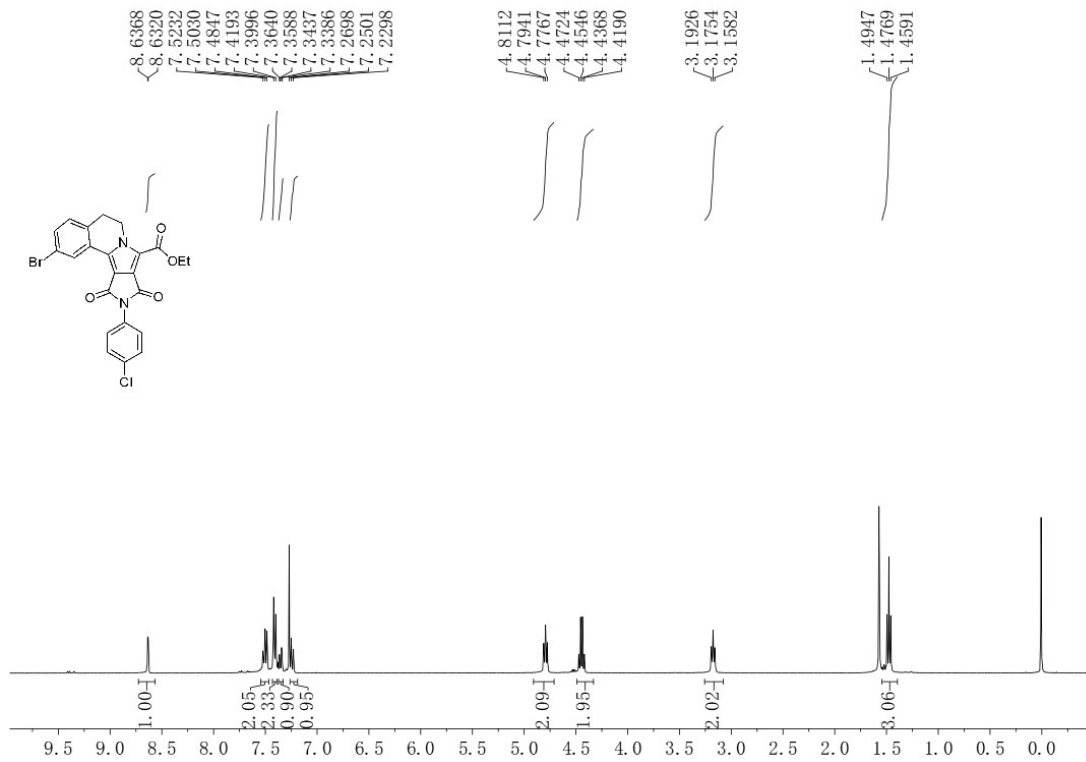
**<sup>13</sup>C NMR of 6h**



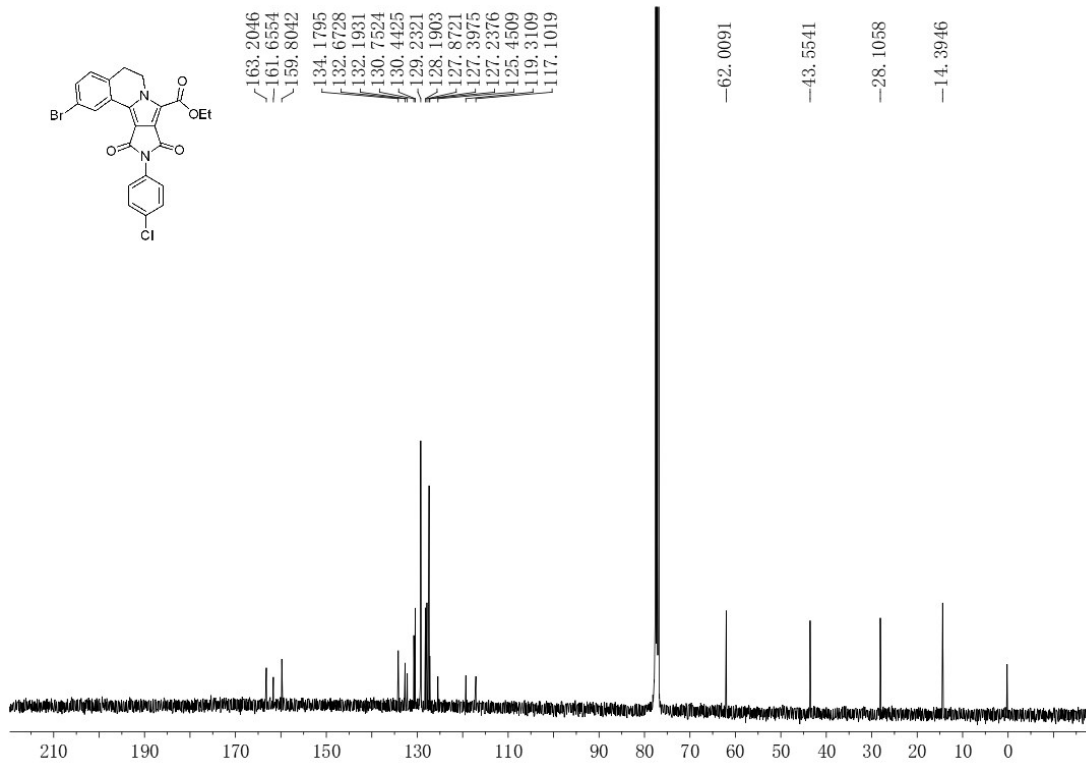
<sup>1</sup>H NMR of **6ia**



<sup>13</sup>C NMR of **6ia**

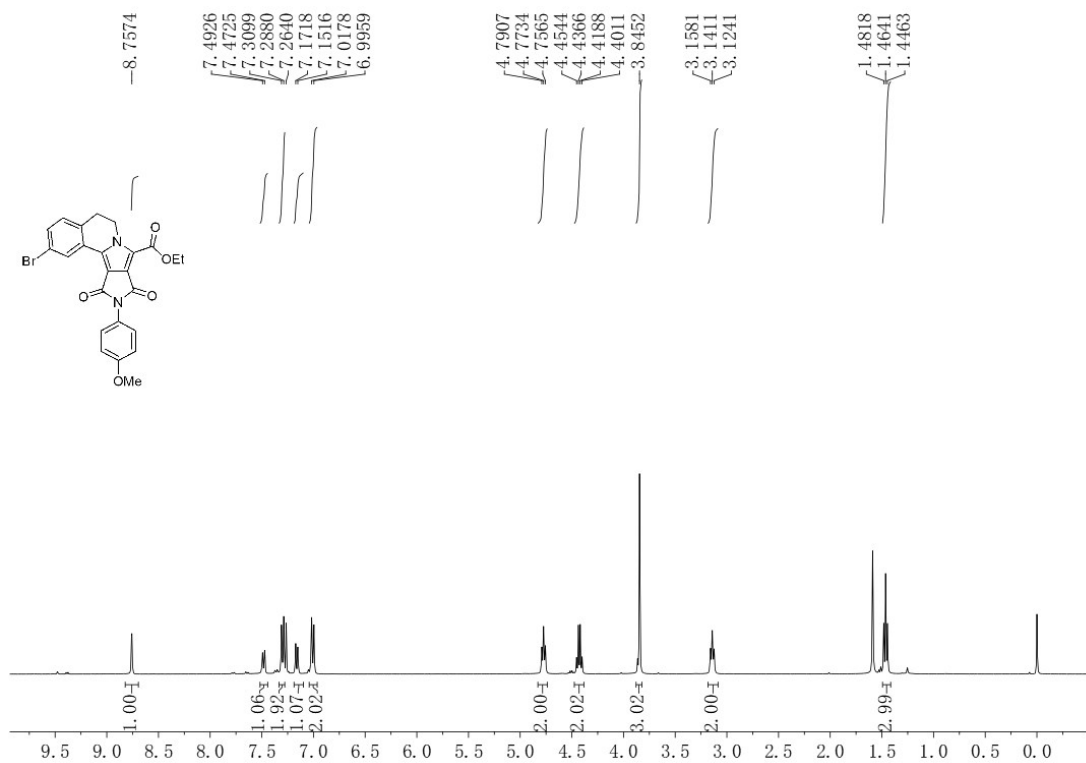


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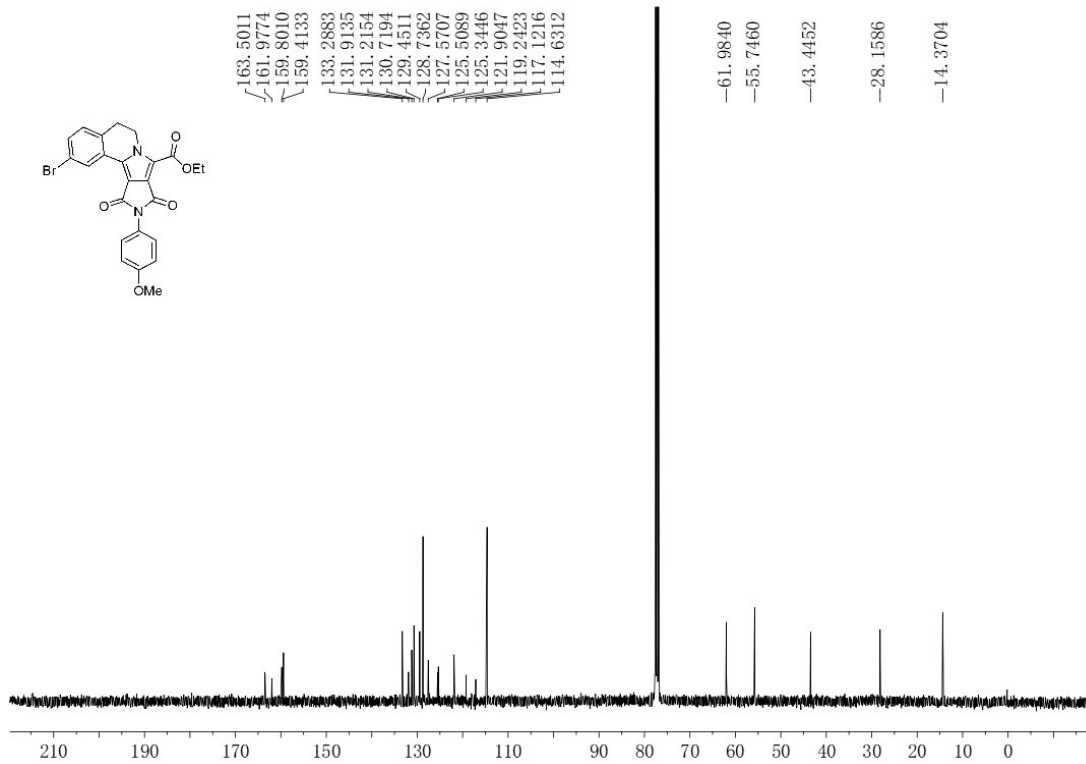


**<sup>13</sup>C NMR of 6ib**

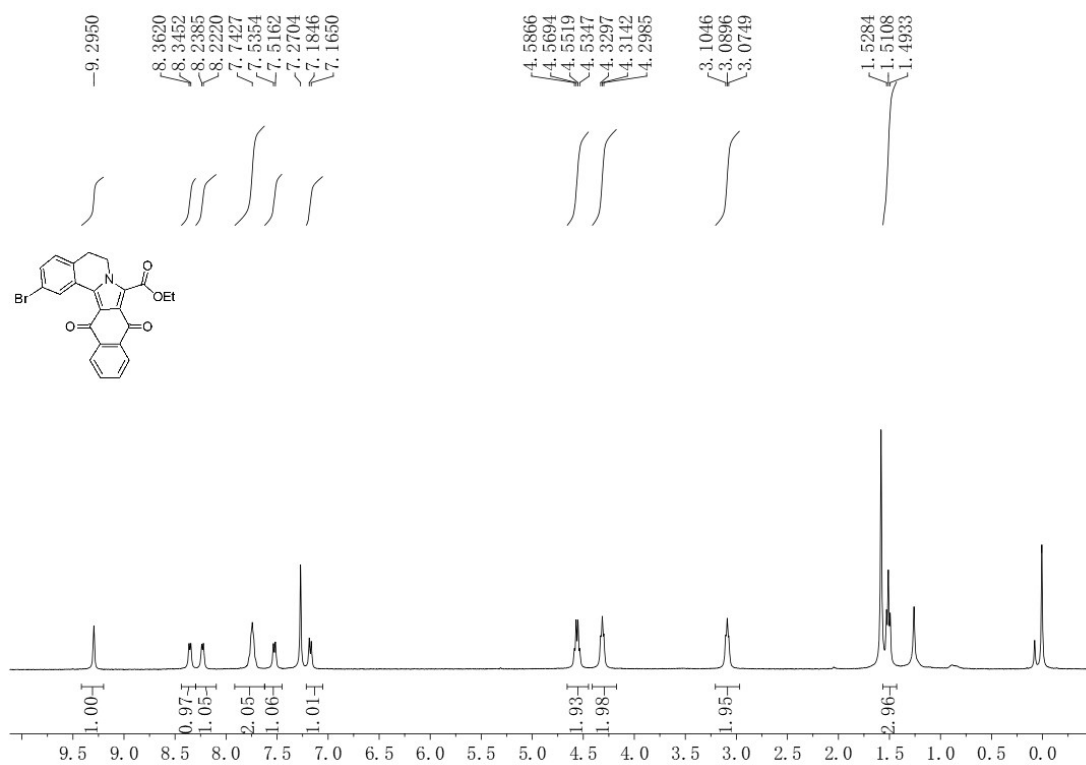




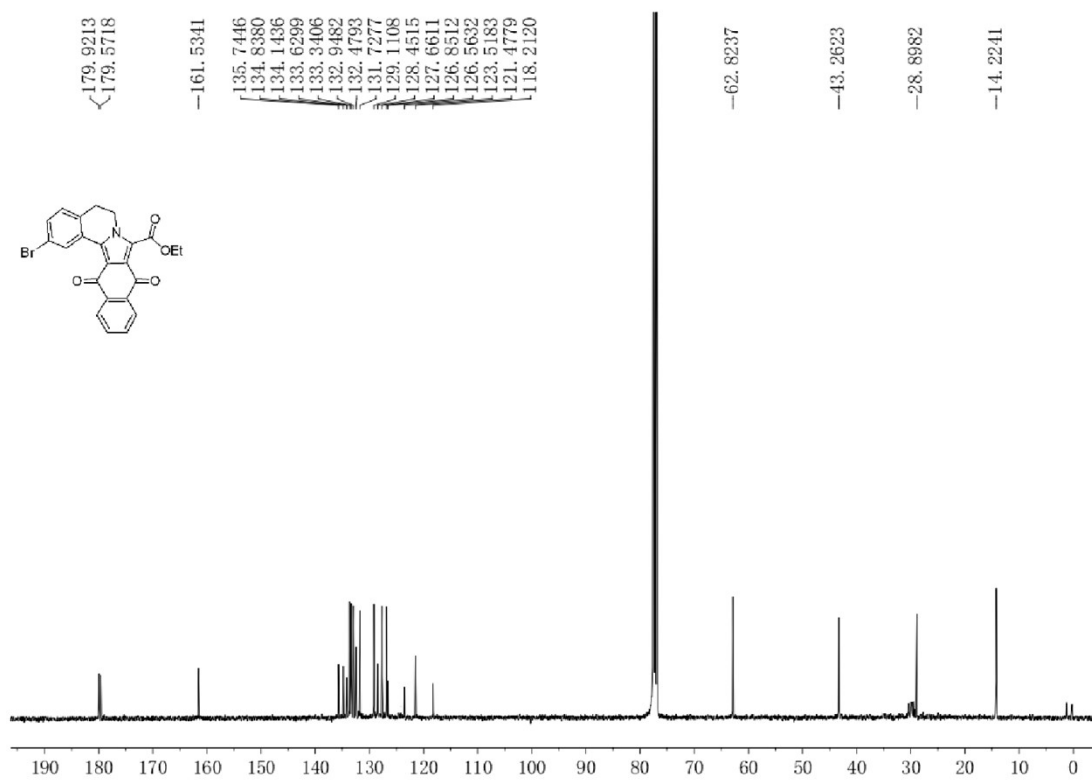
**<sup>1</sup>H NMR of 6ic**



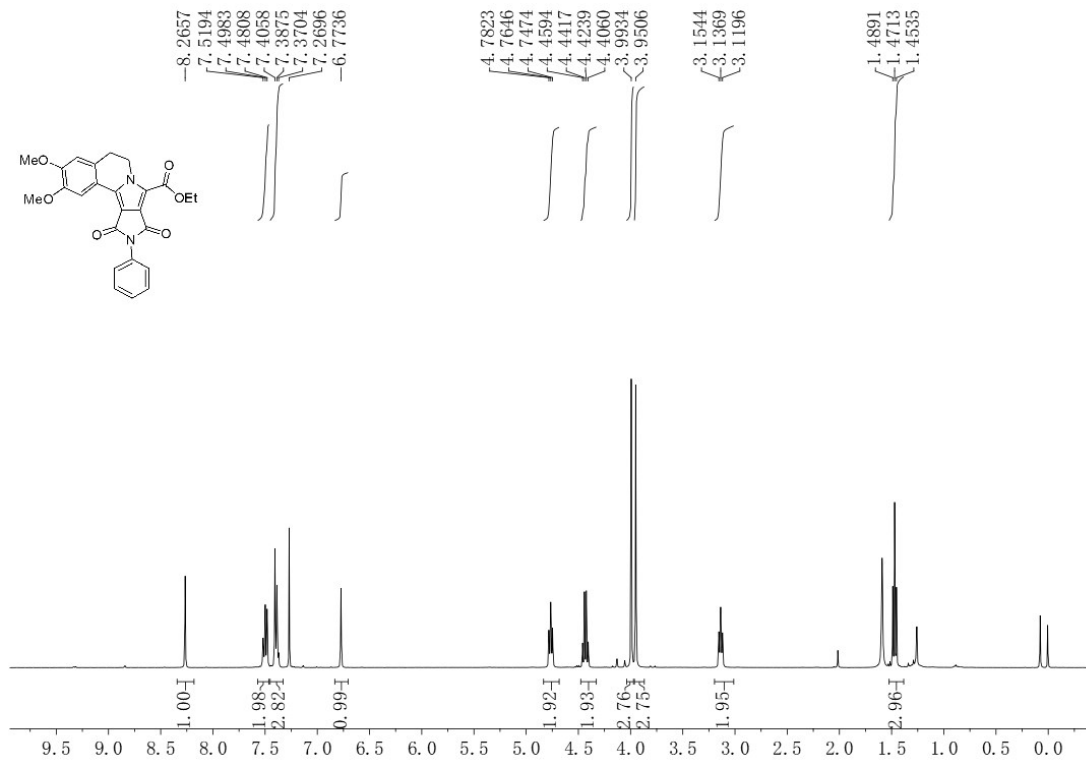
**<sup>13</sup>C NMR of 6ic**



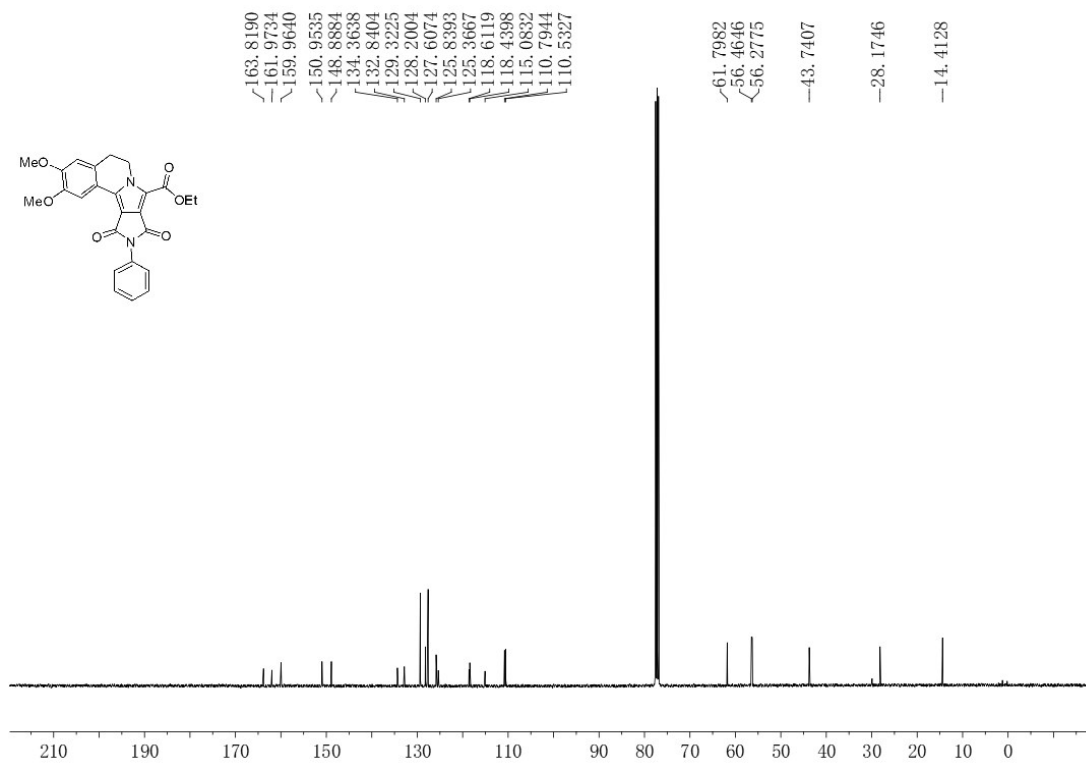
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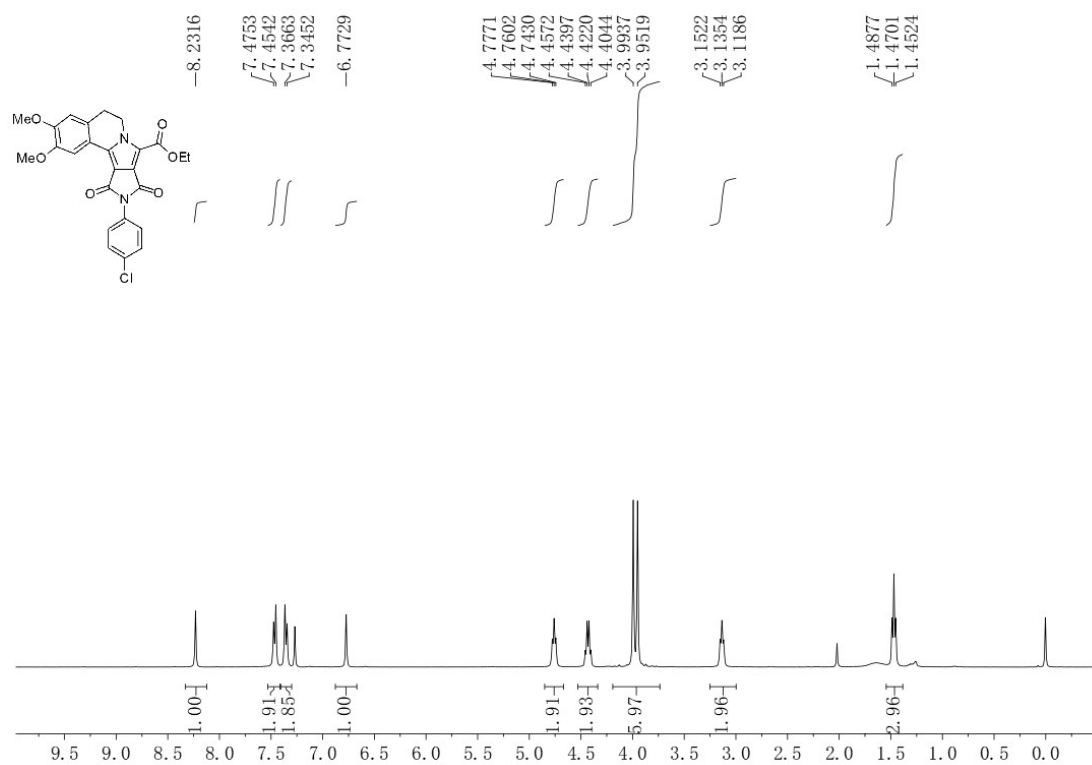
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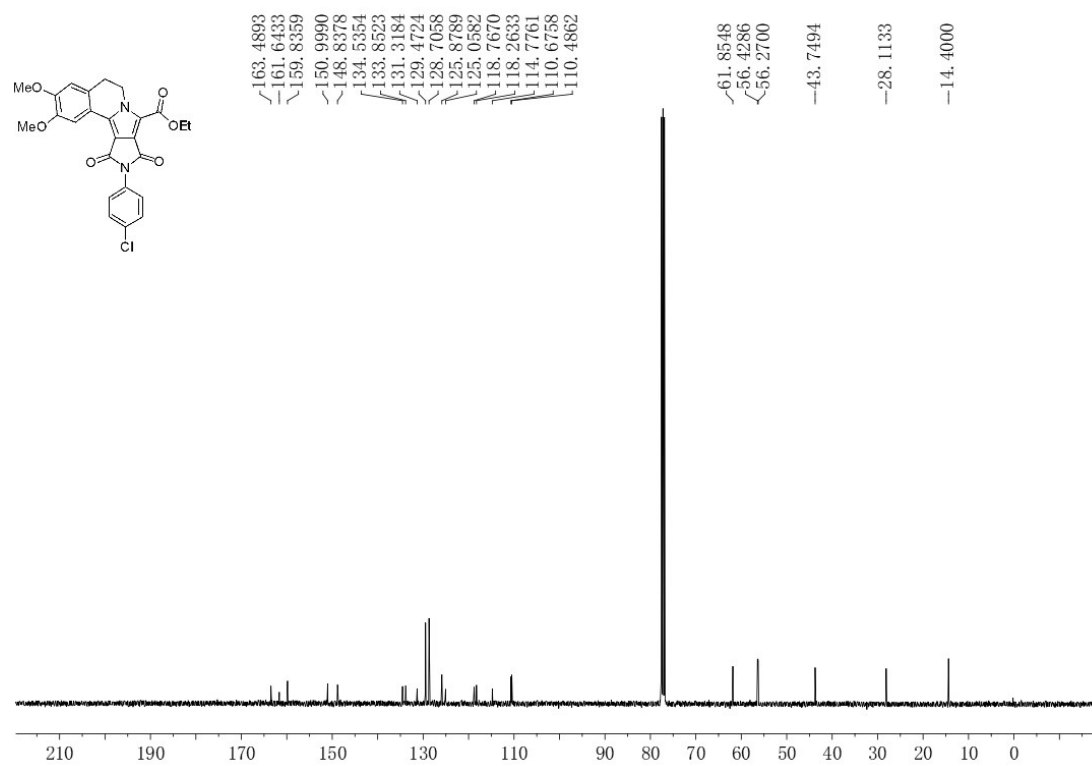
**<sup>1</sup>H NMR of 6ja**



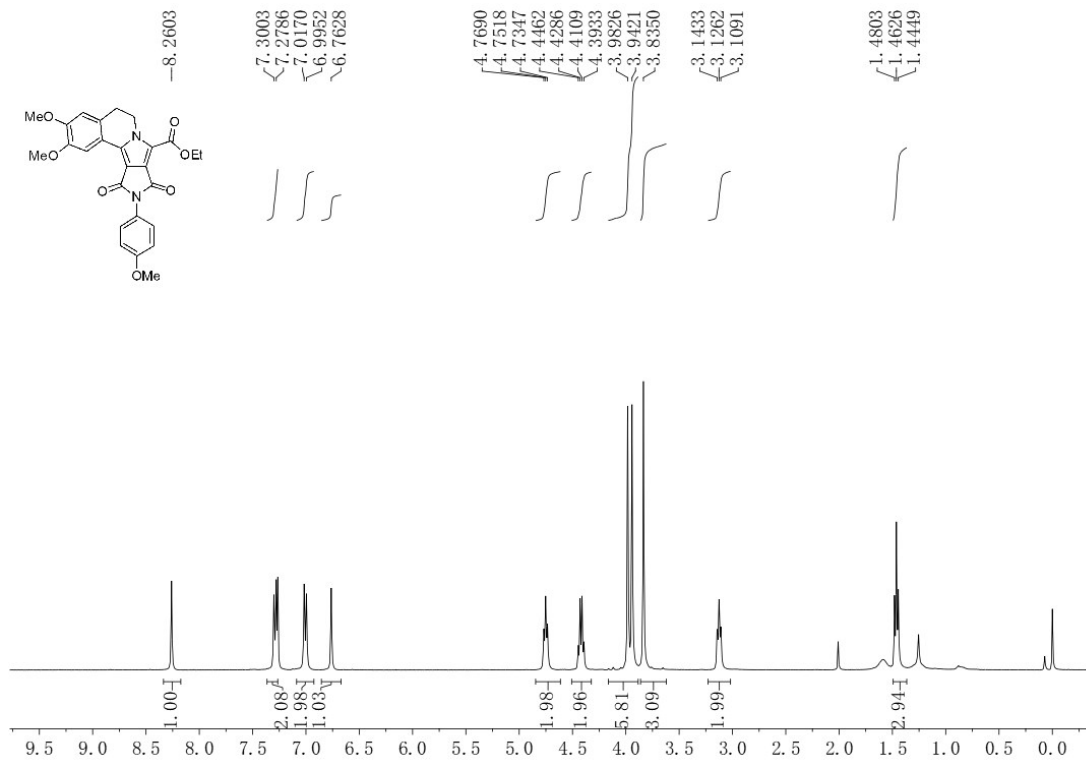
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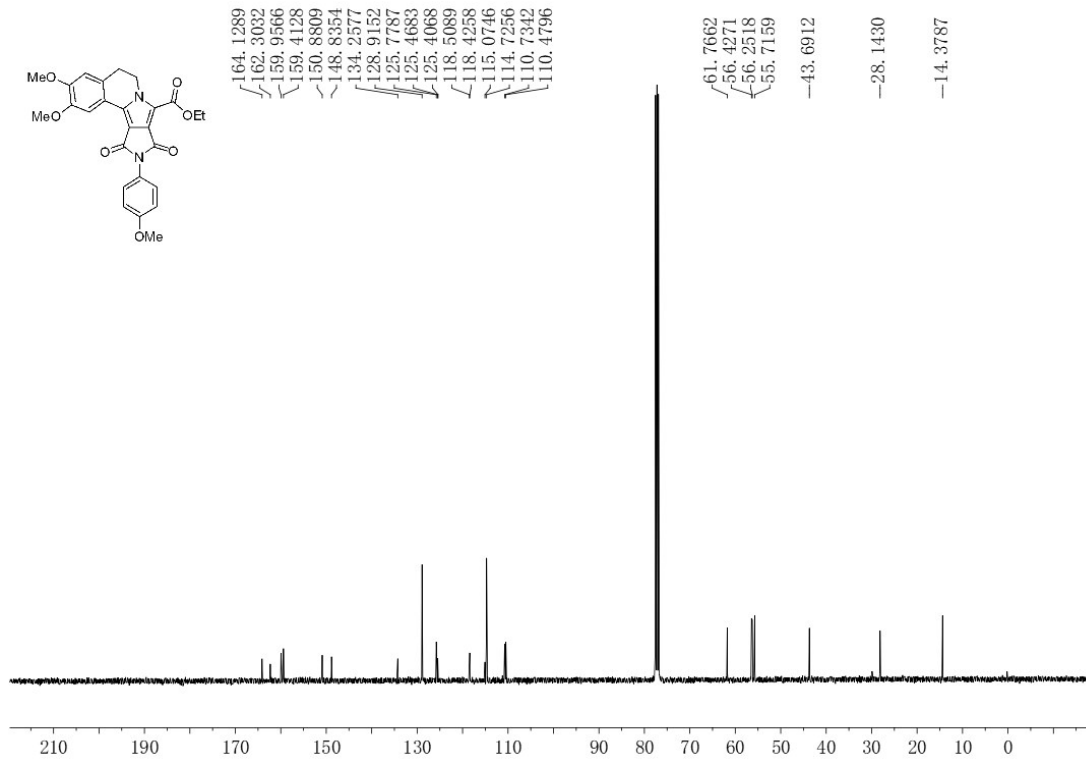
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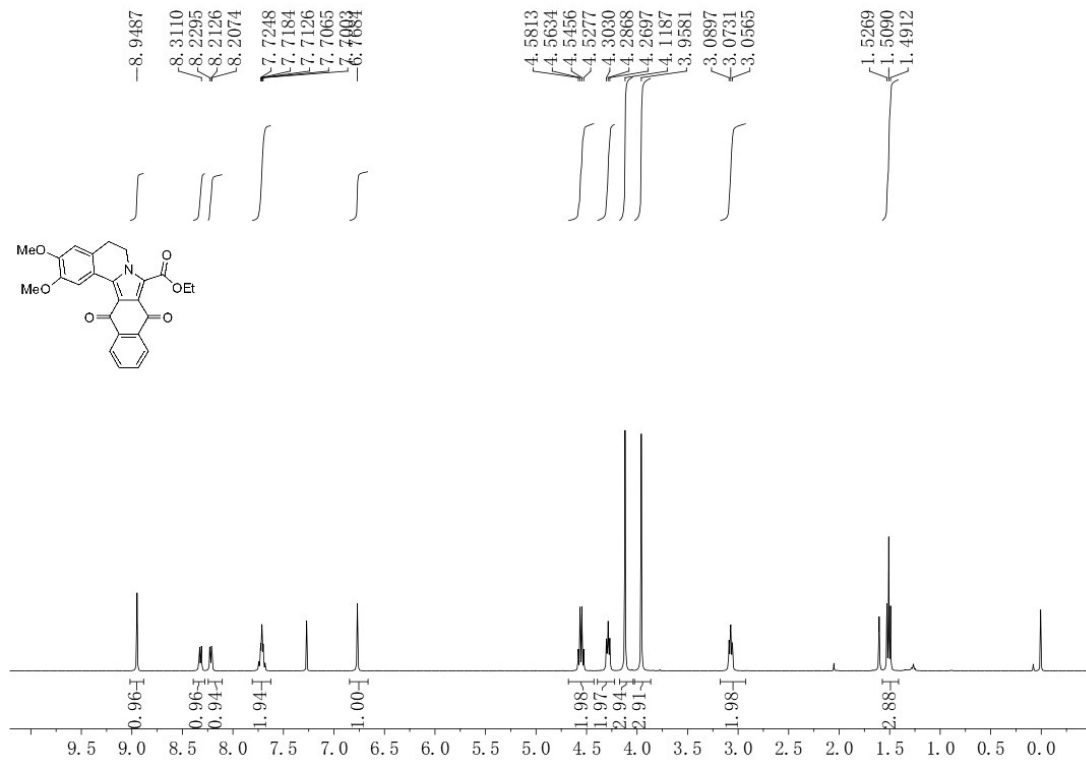
**<sup>13</sup>C NMR of 6jb**



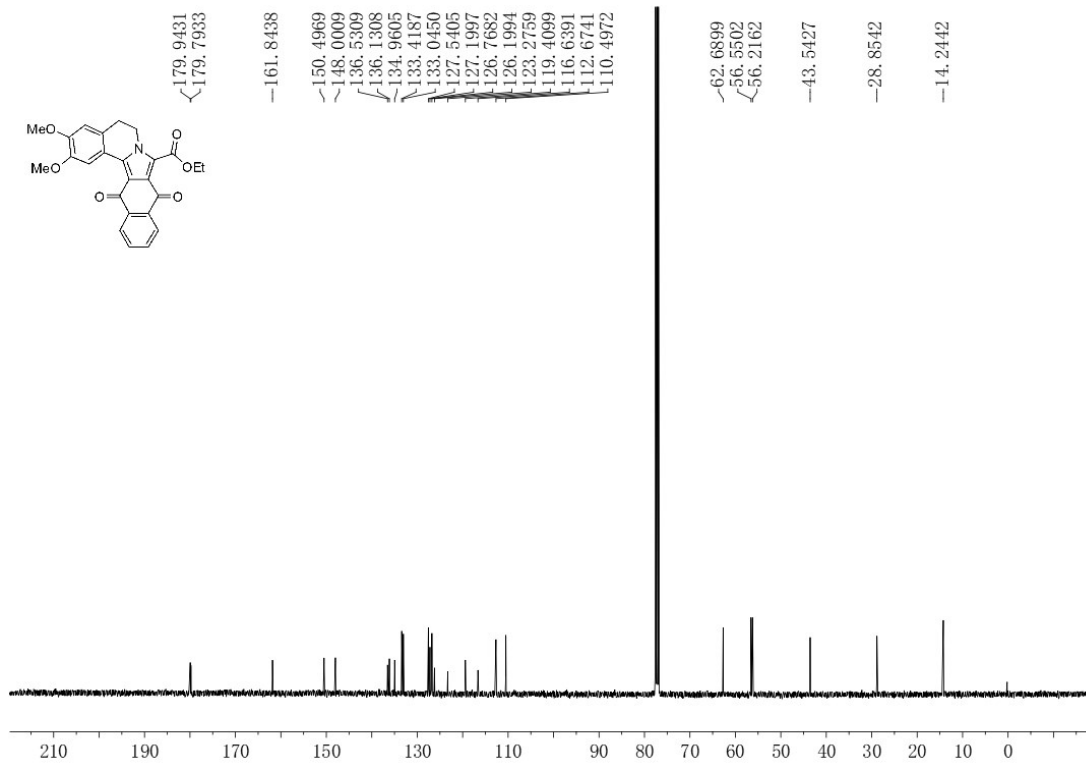
**<sup>1</sup>H NMR of 6jc**



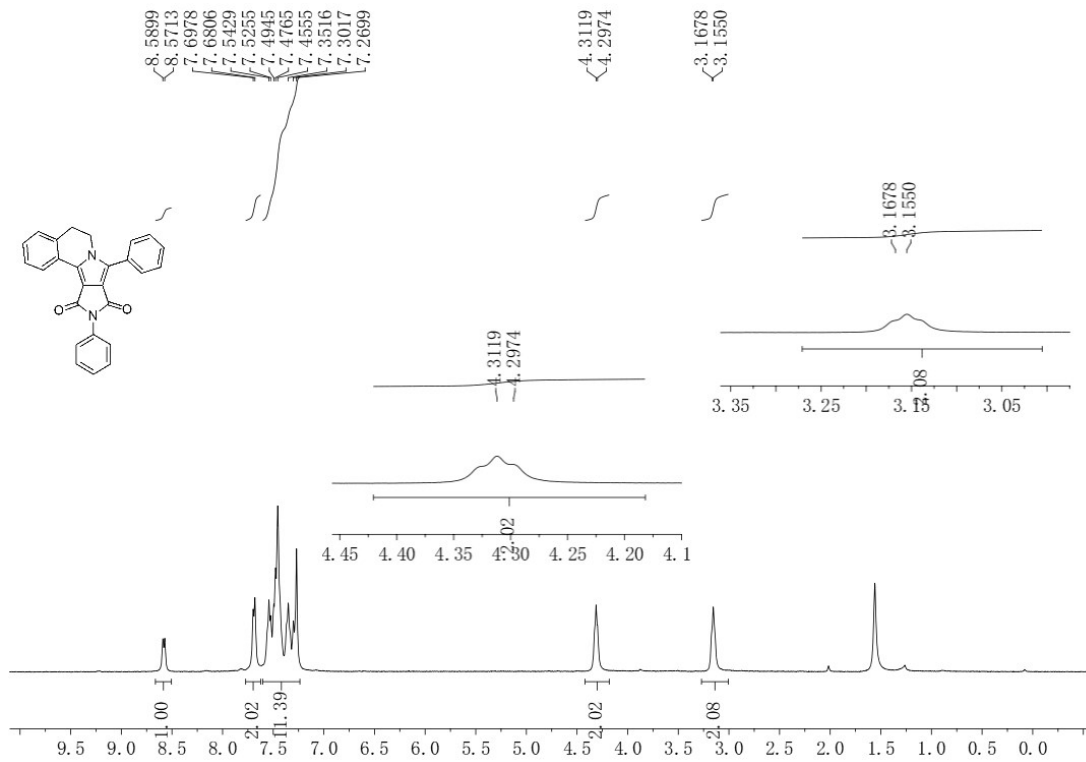
**<sup>13</sup>C NMR of 6jc**



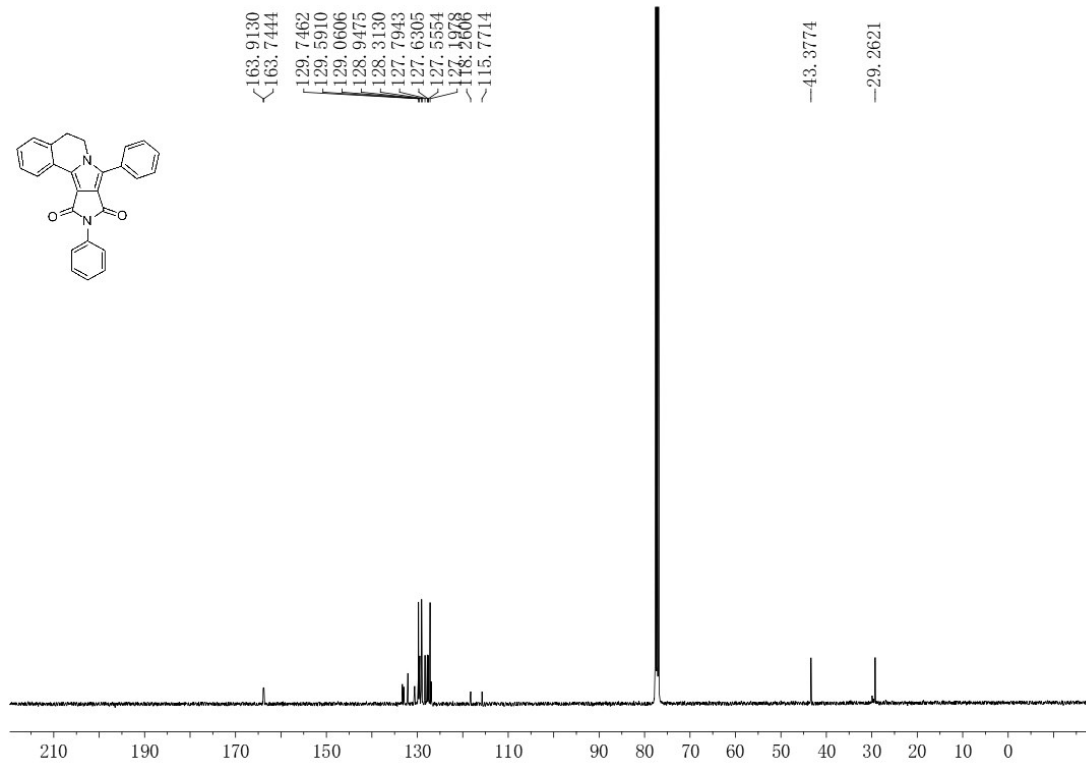
<sup>1</sup>H NMR of 6jd



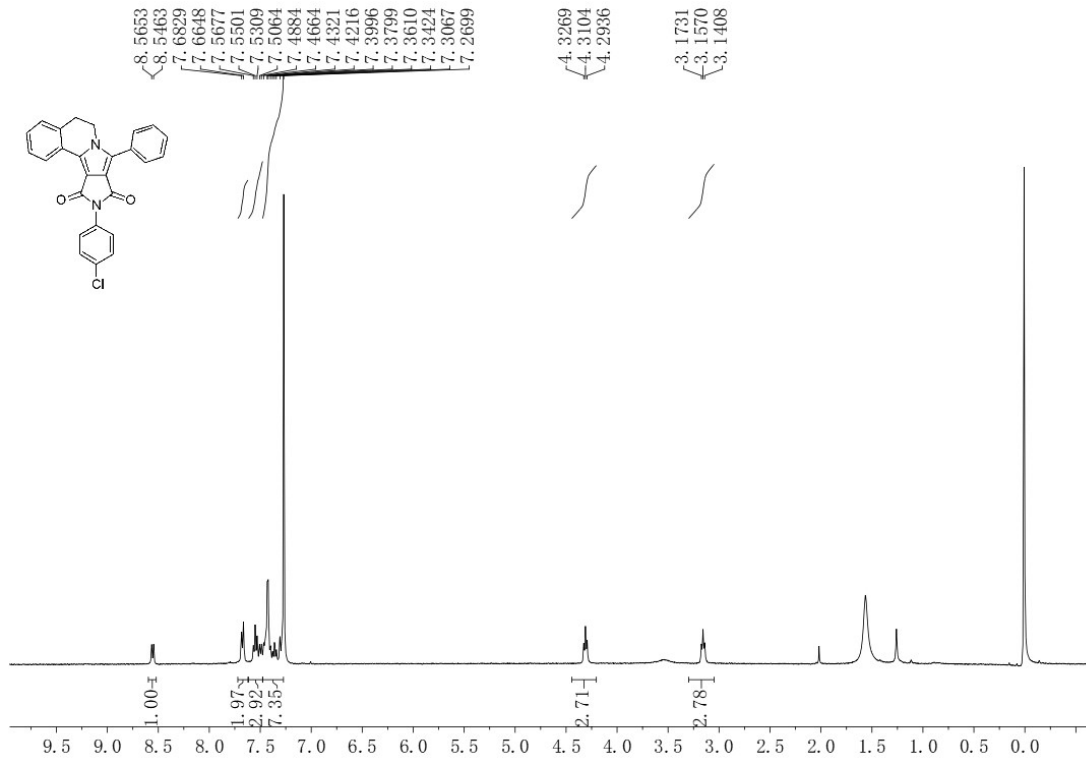
<sup>13</sup>C NMR of 6jd



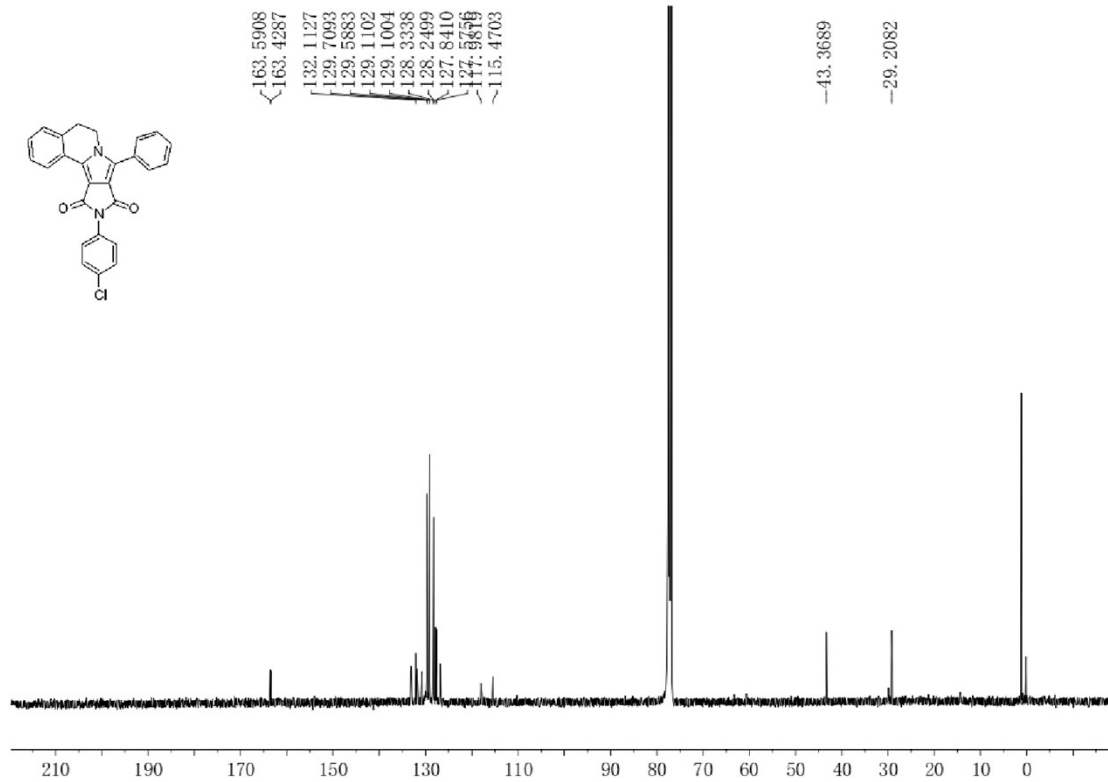
$^1\text{H NMR}$  of **6ka**



$^{13}\text{C NMR}$  of **6ka**

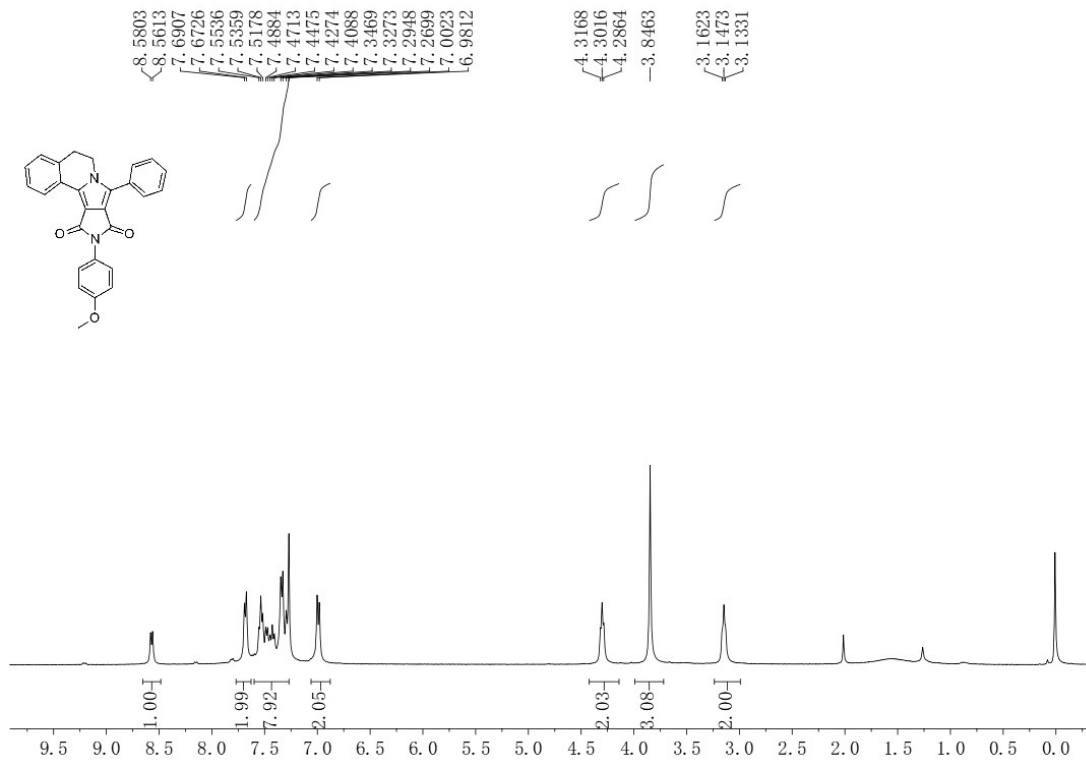


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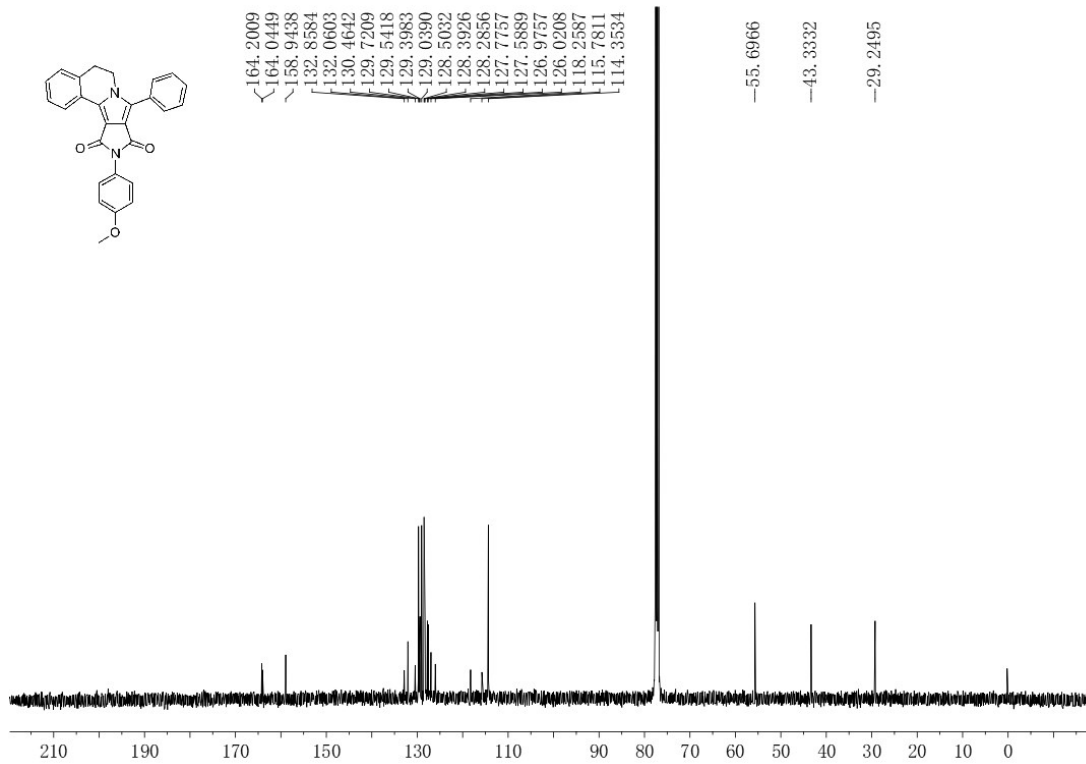


<sup>13</sup>C NMR of 6kb

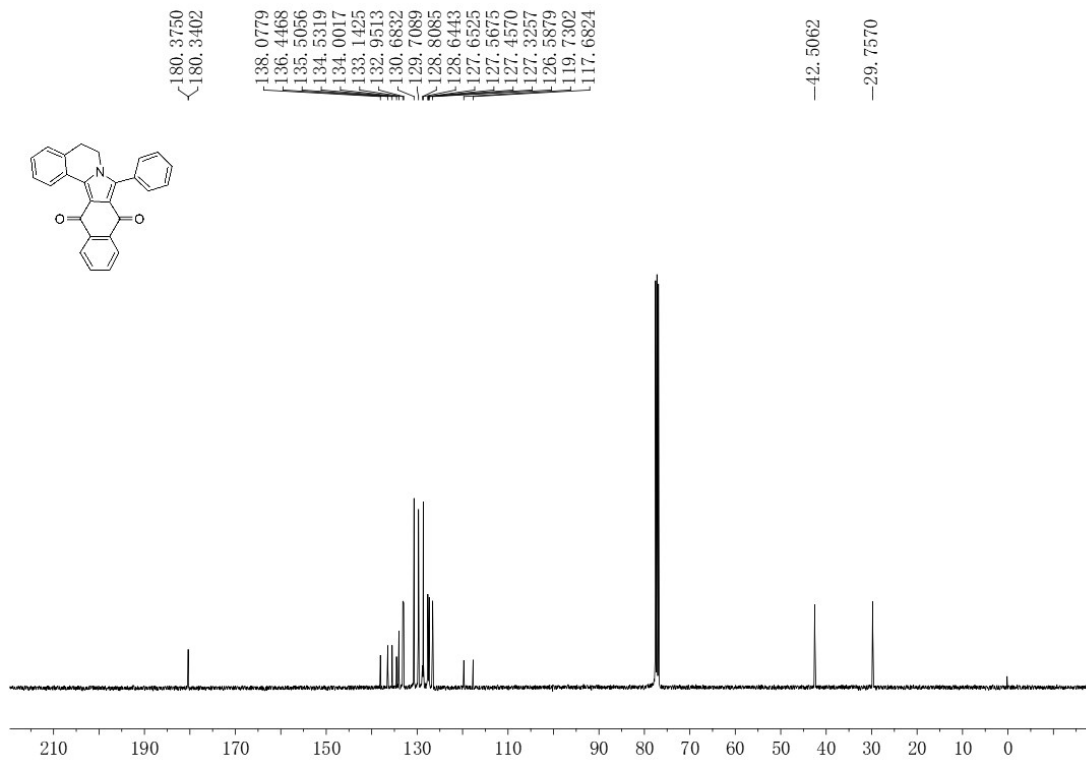
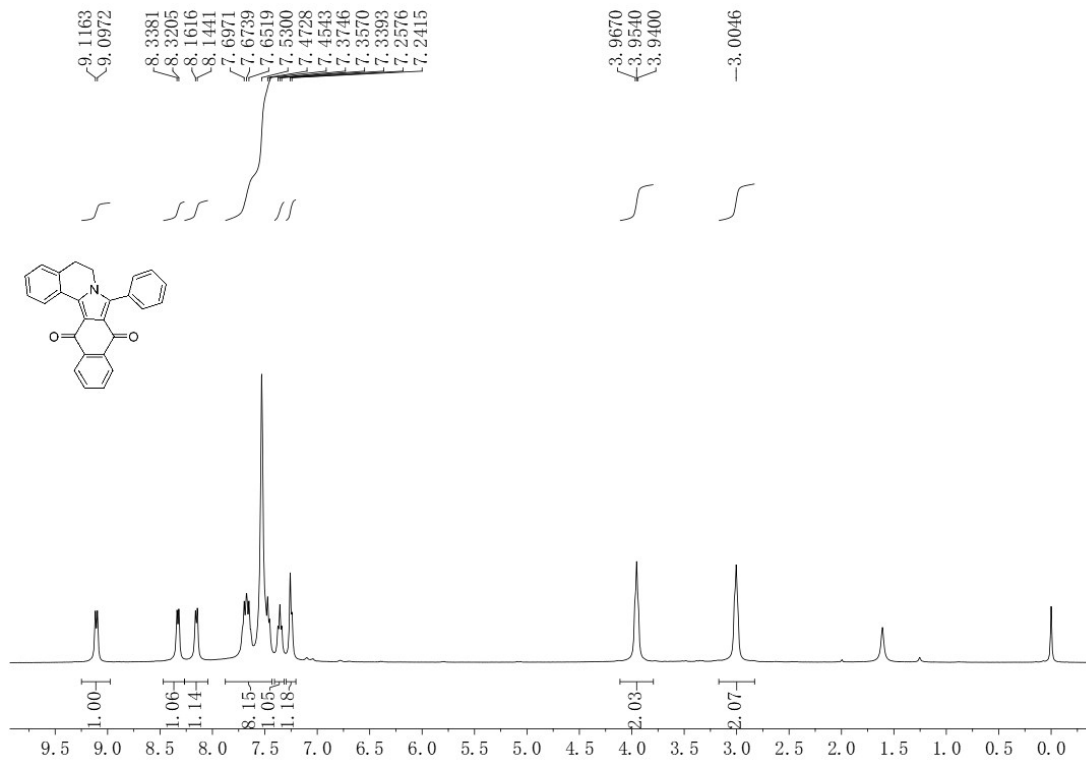


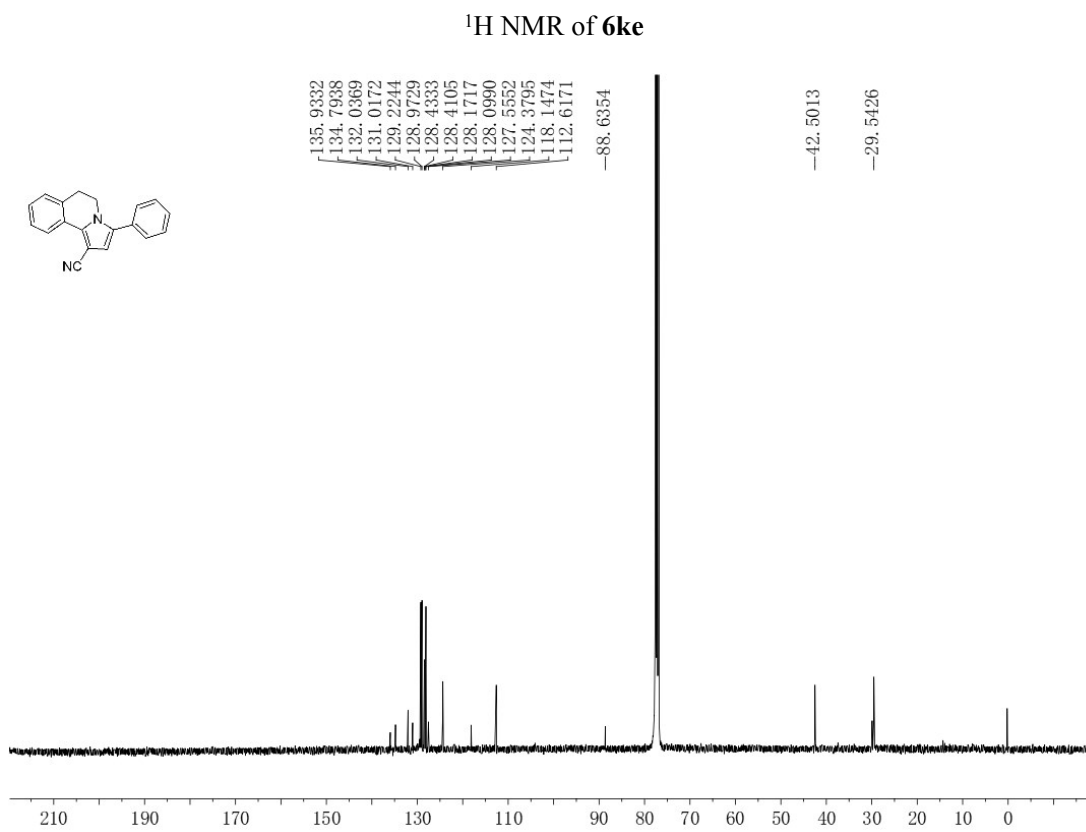
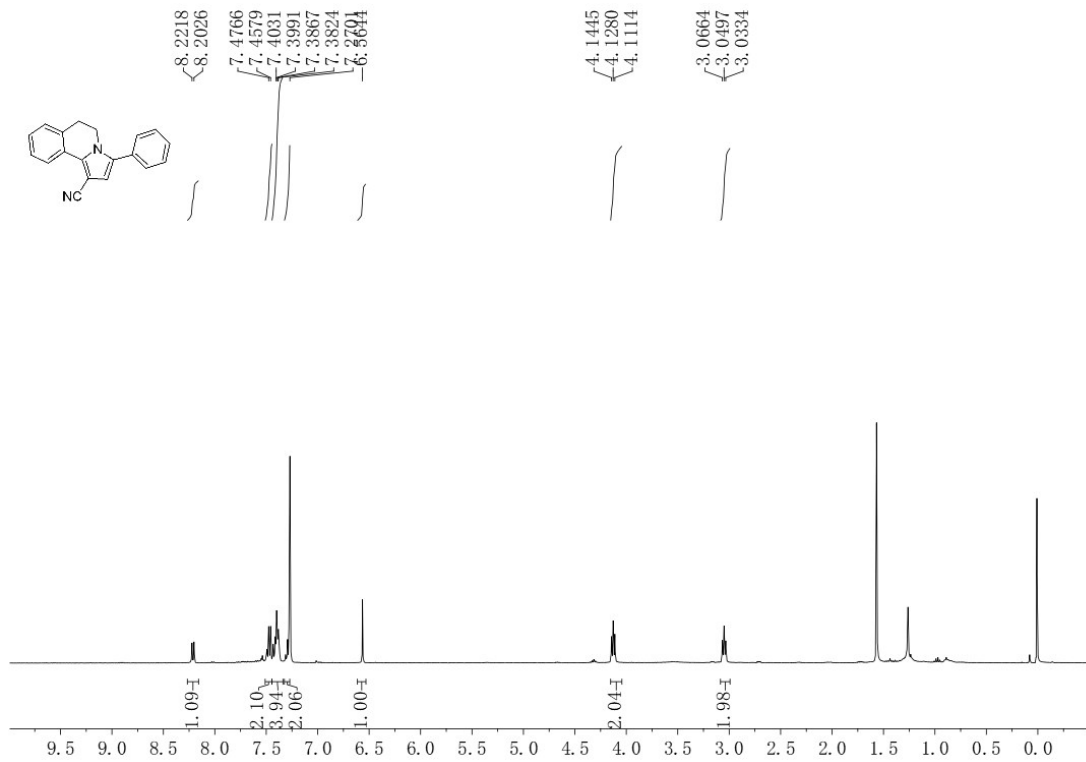


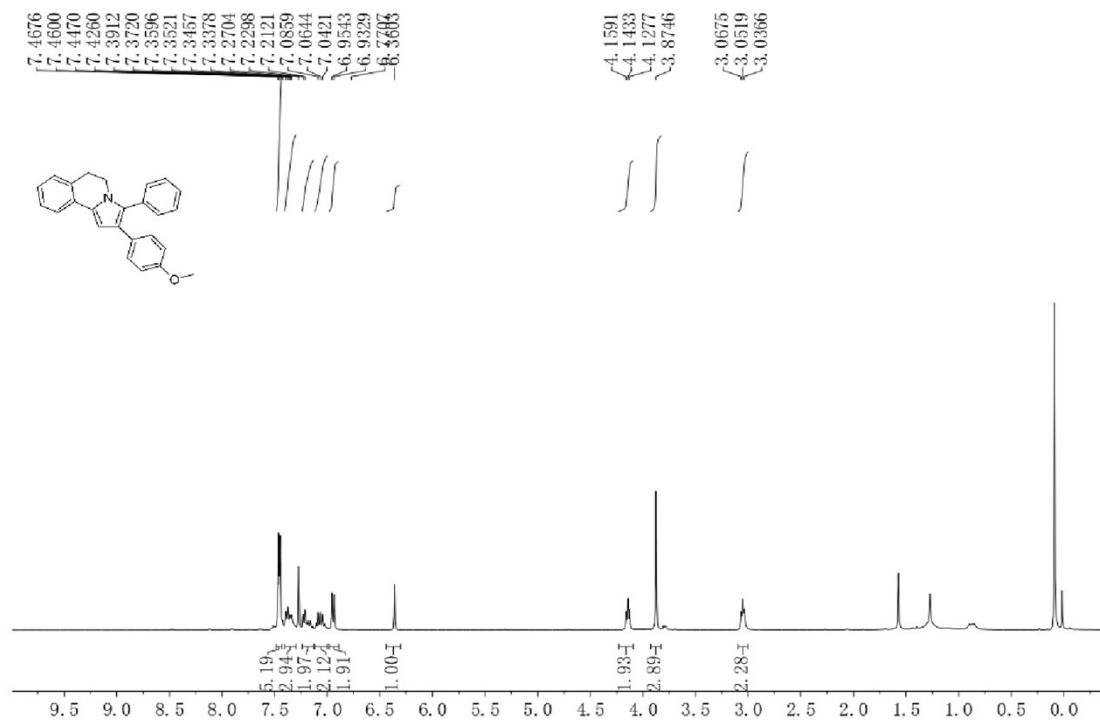
<sup>1</sup>H NMR of 6kc



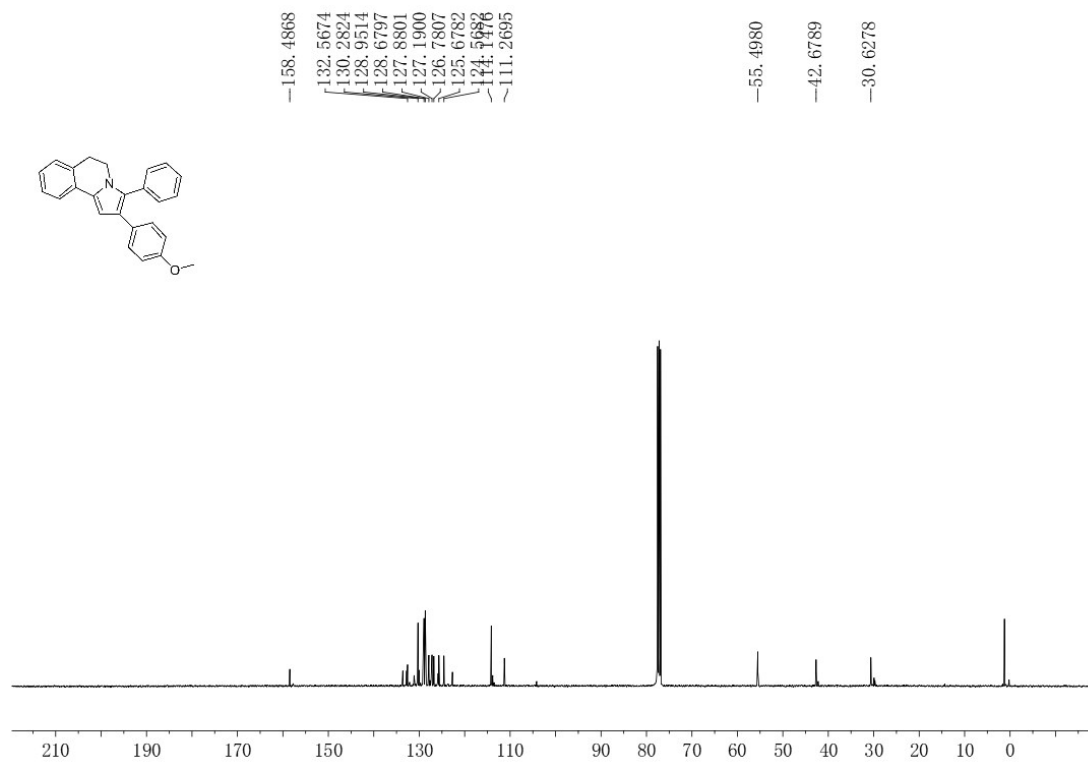
<sup>13</sup>C NMR of 6kc



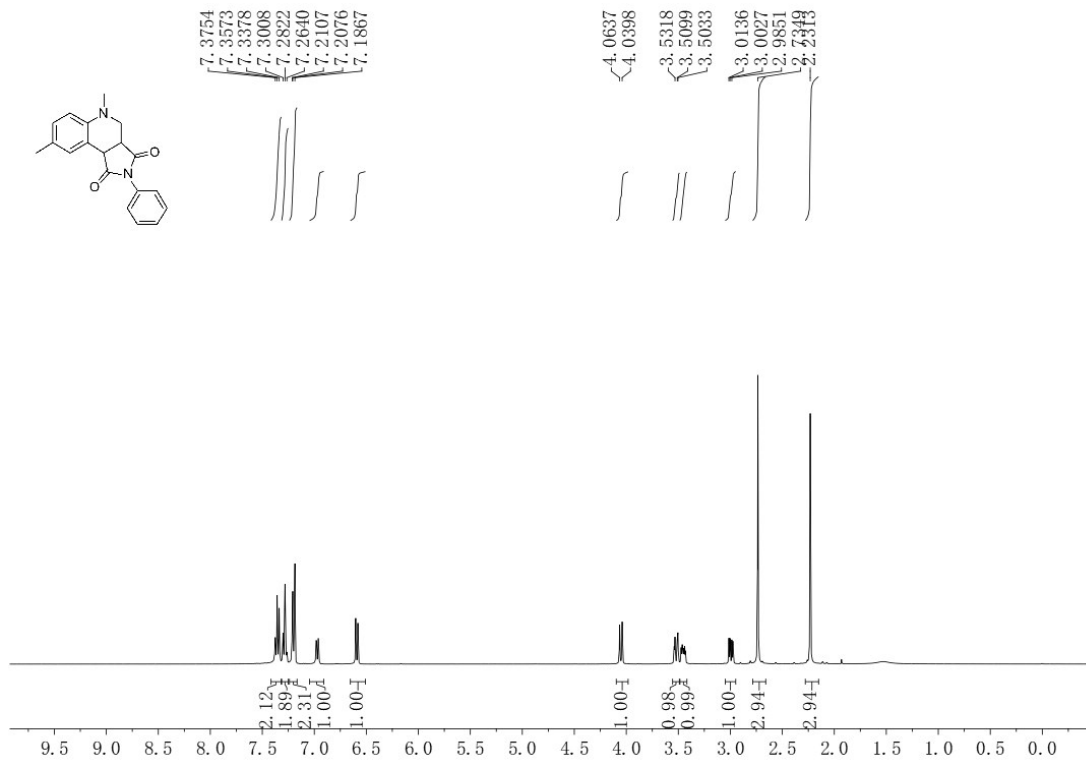




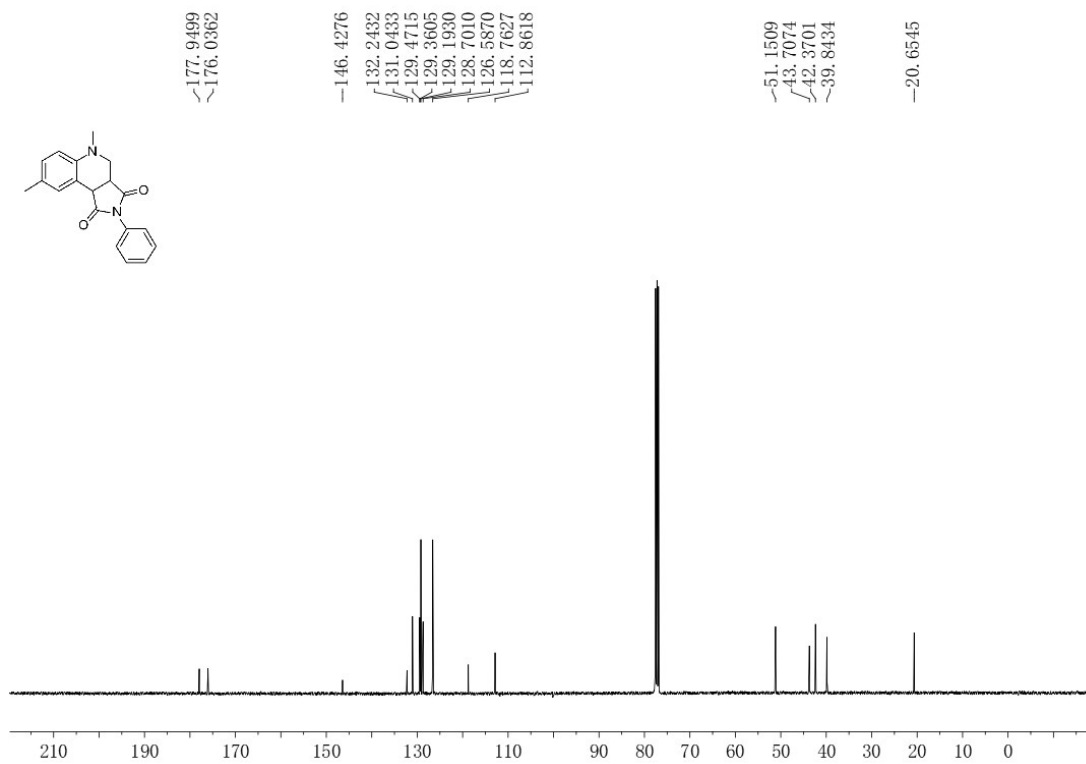
<sup>1</sup>H NMR of 6kf



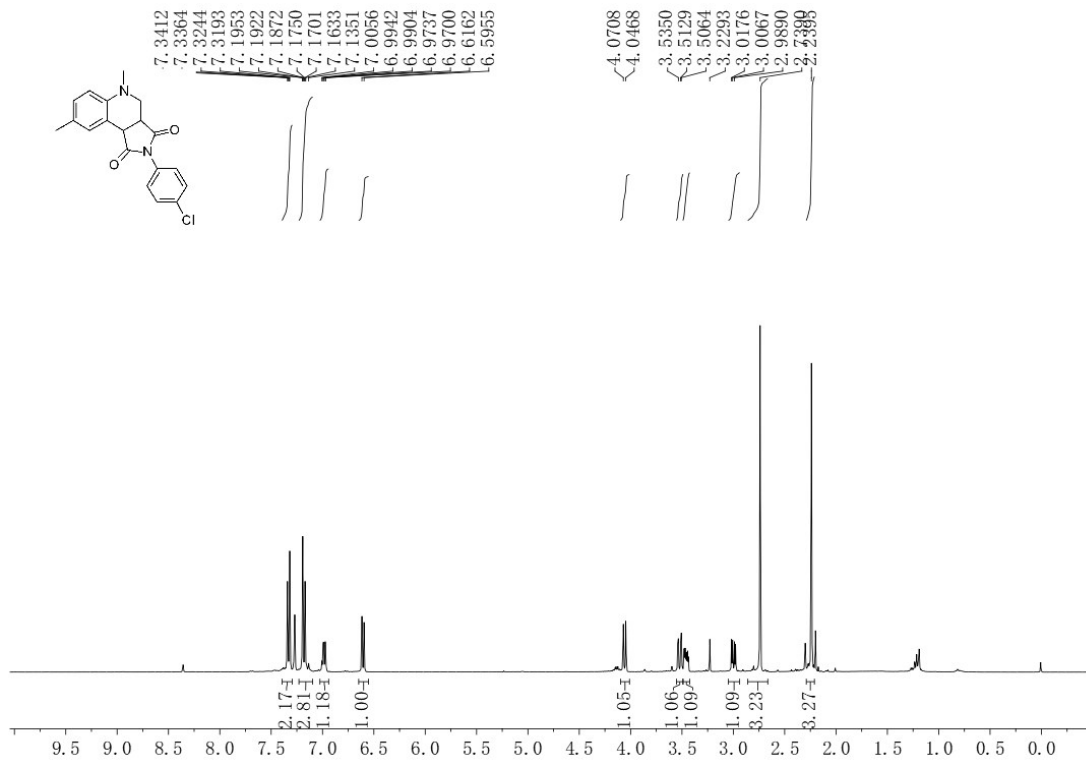
<sup>13</sup>C NMR of 6kf



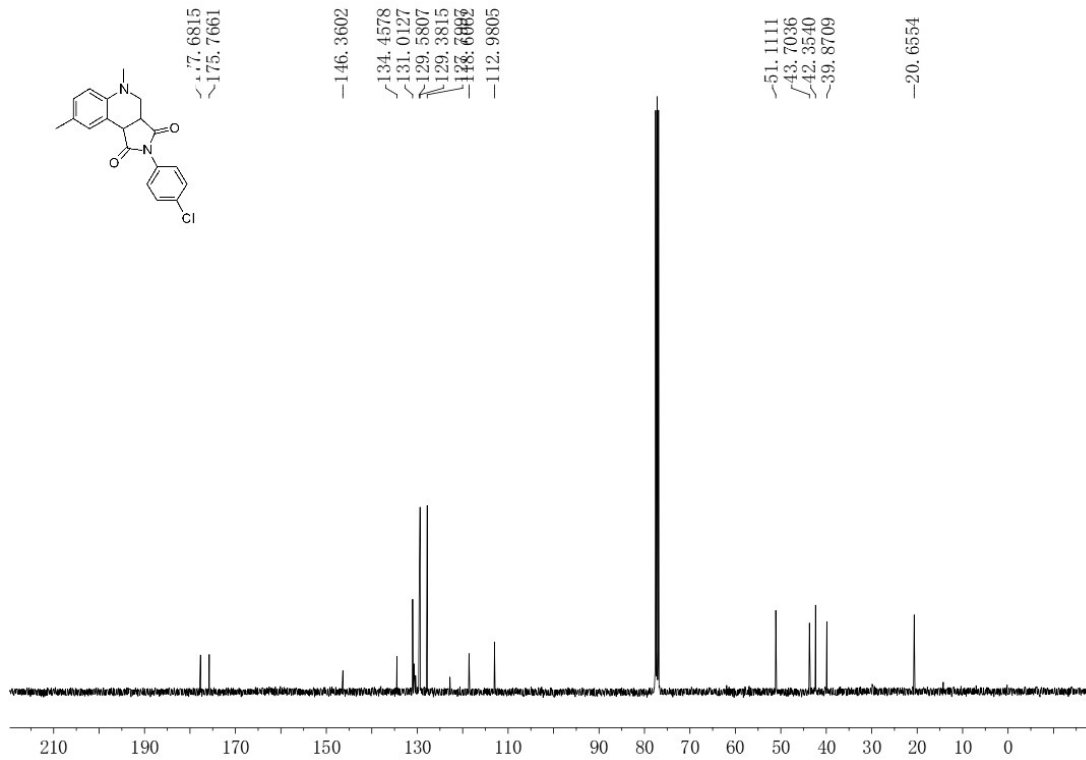
**<sup>1</sup>H NMR of 8a**



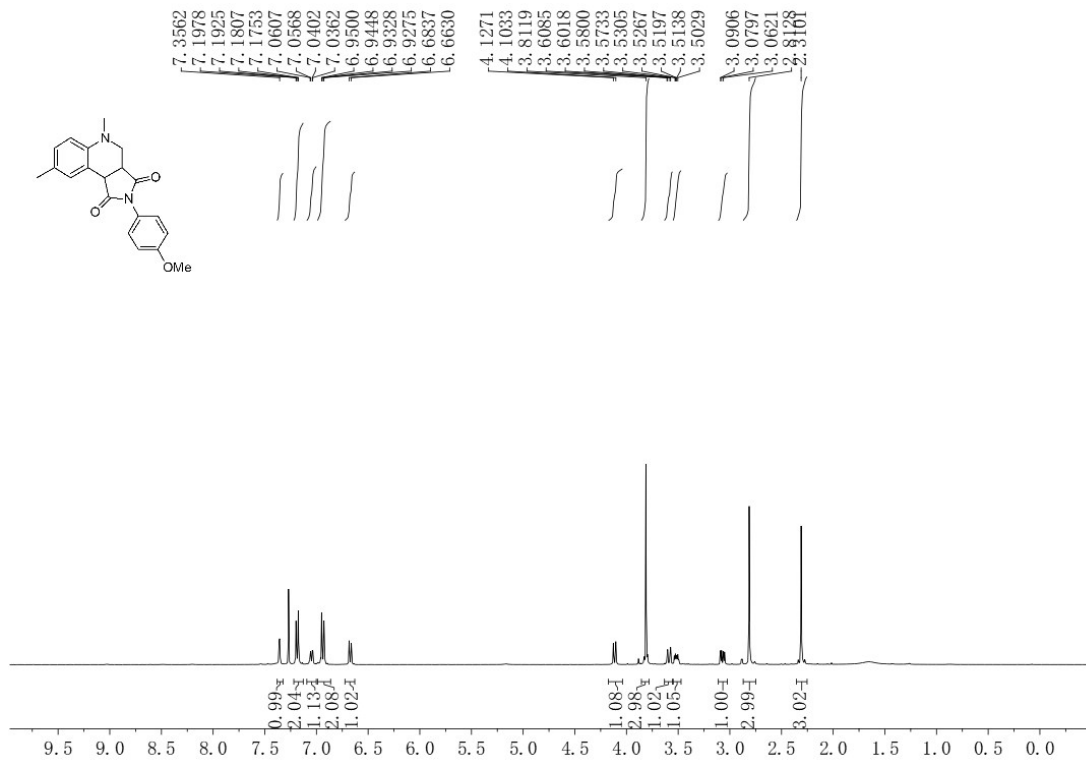
**<sup>13</sup>C NMR of 8a**



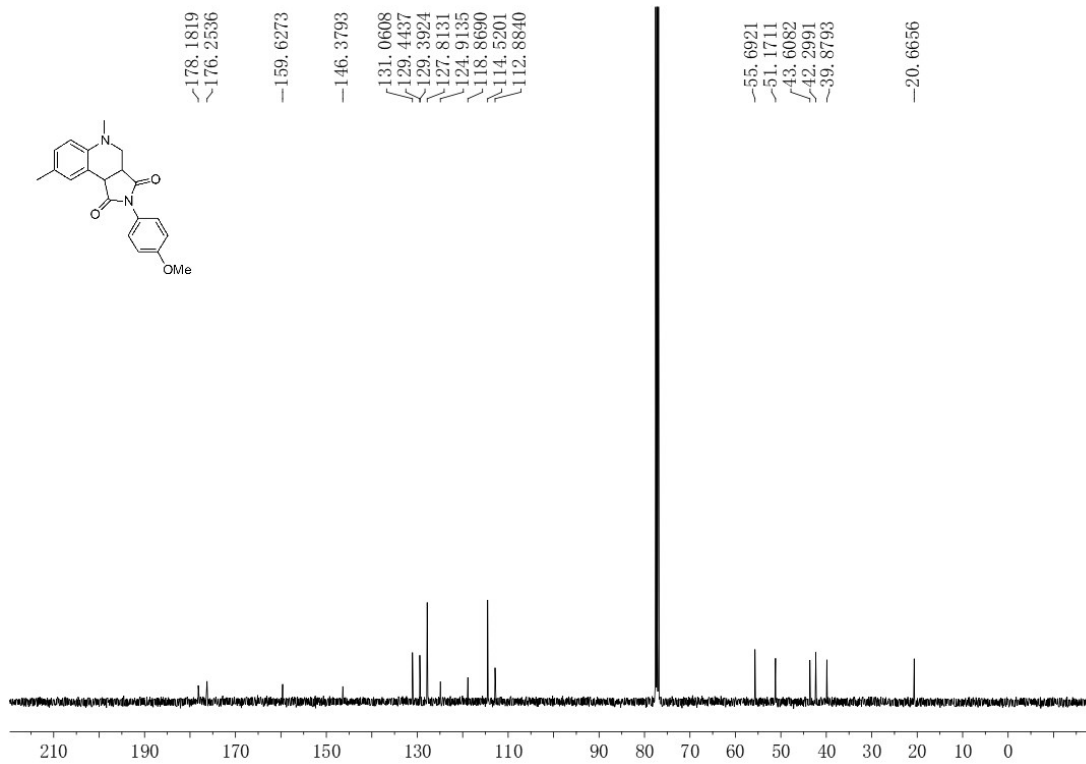
**<sup>1</sup>H NMR of 8b**



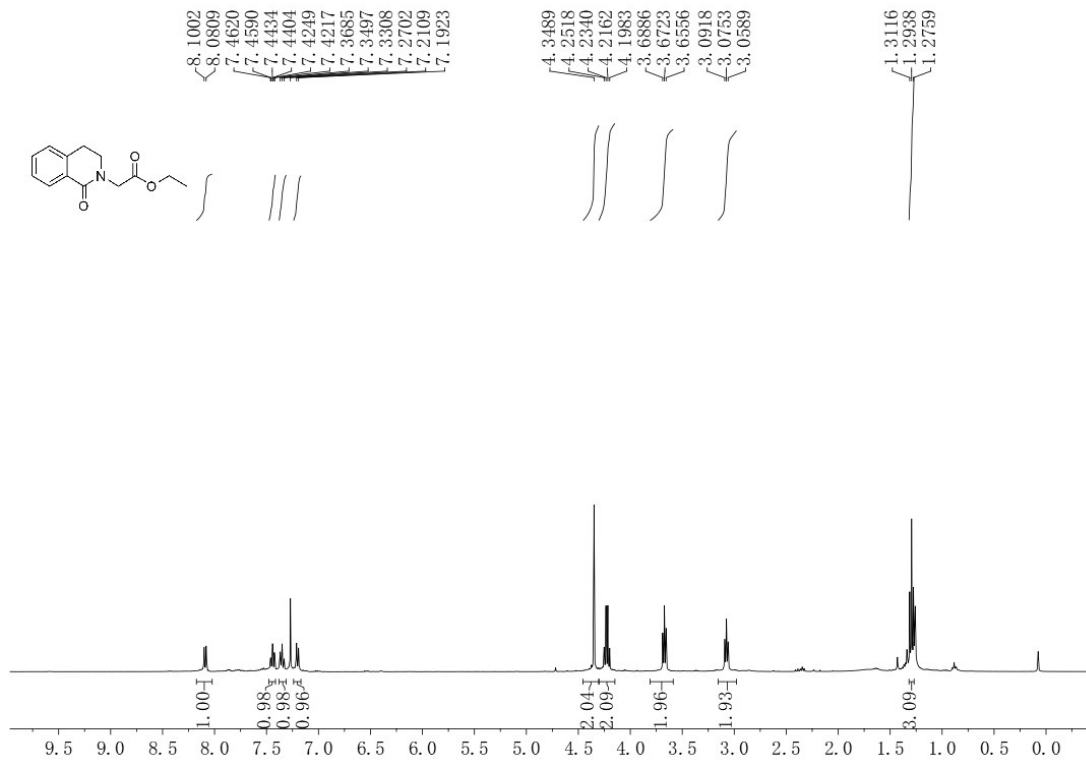
**<sup>13</sup>C NMR of 8b**



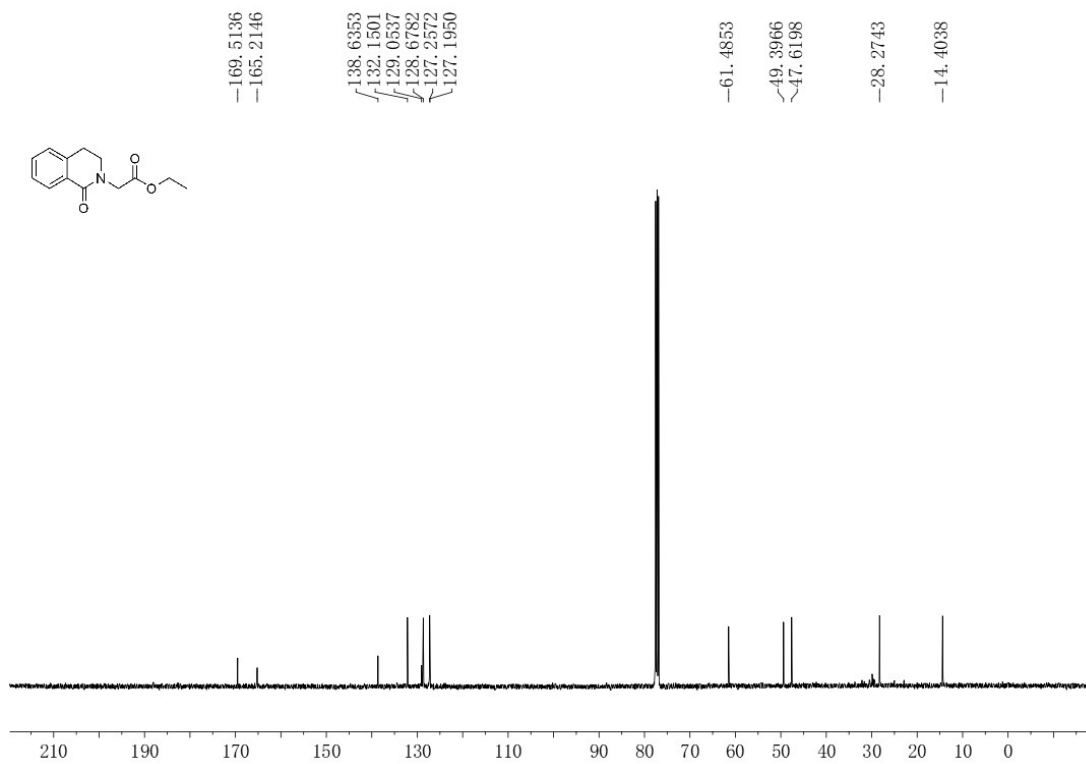
$^1\text{H}$  NMR of **8c**



$^{13}\text{C}$  NMR of **8c**



$^1\text{H}$  NMR of **9**



$^{13}\text{C}$  NMR of **9**