

Supplementary Information

Discovery of Methylpyrimidine Ring-Fused Acetyl Diterpene Analogs as Novel

Testosterone Synthesis Promoter in Mouse Leydig Cells

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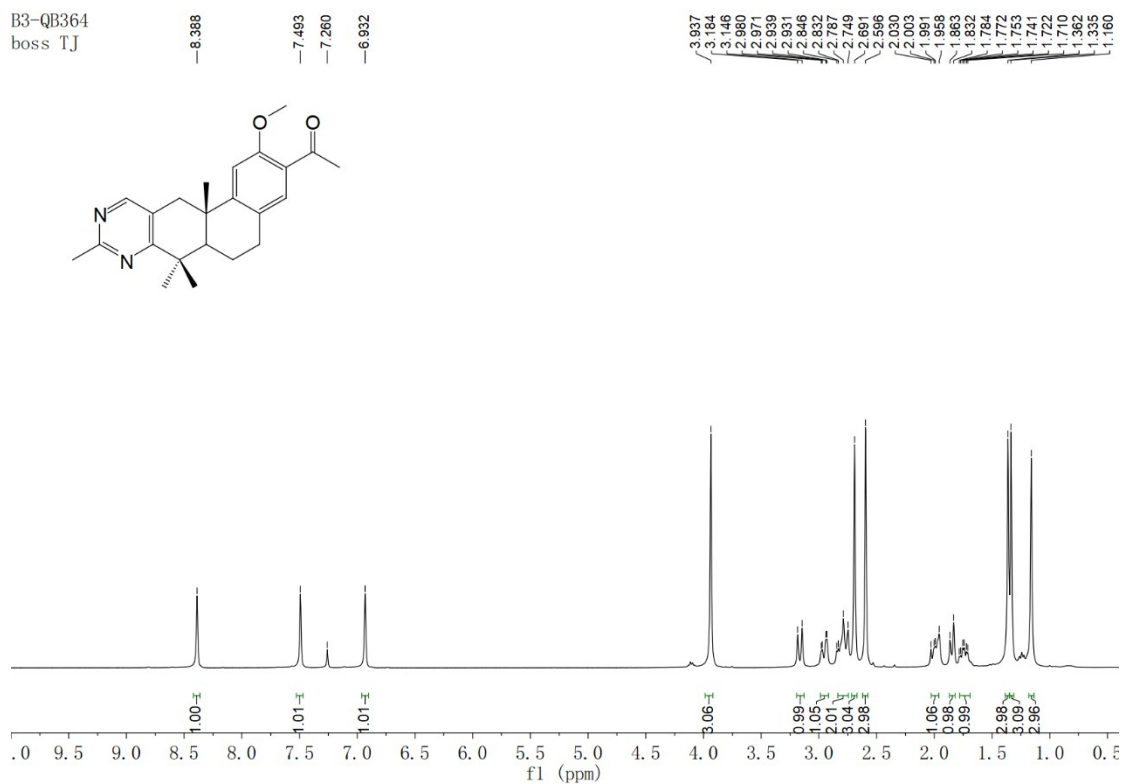
Table S1 Nucleotide sequences of primers used for qRT-PCR.	S2
¹ H NMR and ¹³ C NMR spectra of all final compounds.	S3–S17

Table S1. Nucleotide sequences of primers used for qRT-PCR.

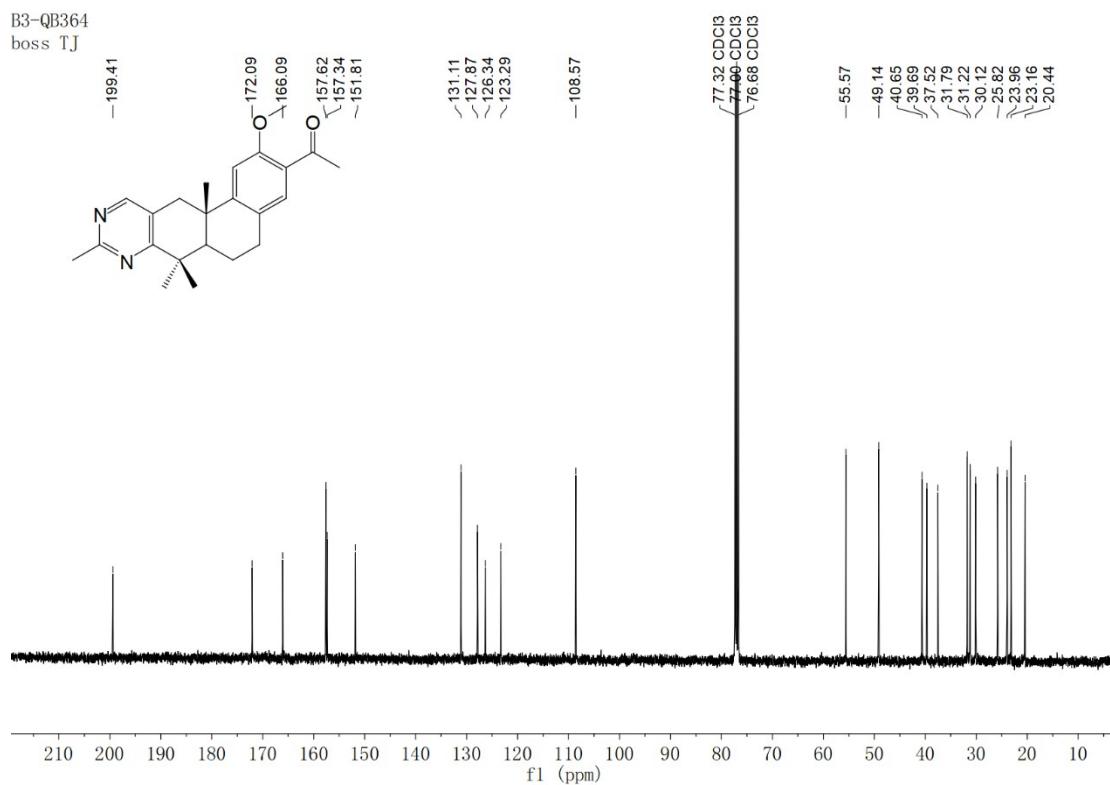
Gene name	Sequences of primers
StAR	Forward: 5'-GGGCATACTCAACAACCAG-3'
	Reverse: 5'-ACCTCCAGTCGGAACACC-3'
3 β -HSD	Forward: 5'-TGTGCCAGCCTTCATCTAC-3'
	Reverse: 5'-CTTCTCGGCCATCCTTTT-3'
CYP11A1	Forward: 5'- AGTATCCGTGATGTGGGG-3'
	Reverse: 5'- CATAAGTGTCGCCTTTTCT-3'
β -actin	Forward: 5'-GTACGCCAACACAGTGCTG-3'
	Reverse: 5'-CGTCATACTCCTGCTTGCTG-3'

¹H NMR (400 MHz, CDCl₃) and ¹³C NMR (100 MHz, CDCl₃) spectra of compound **7**

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boss TJ

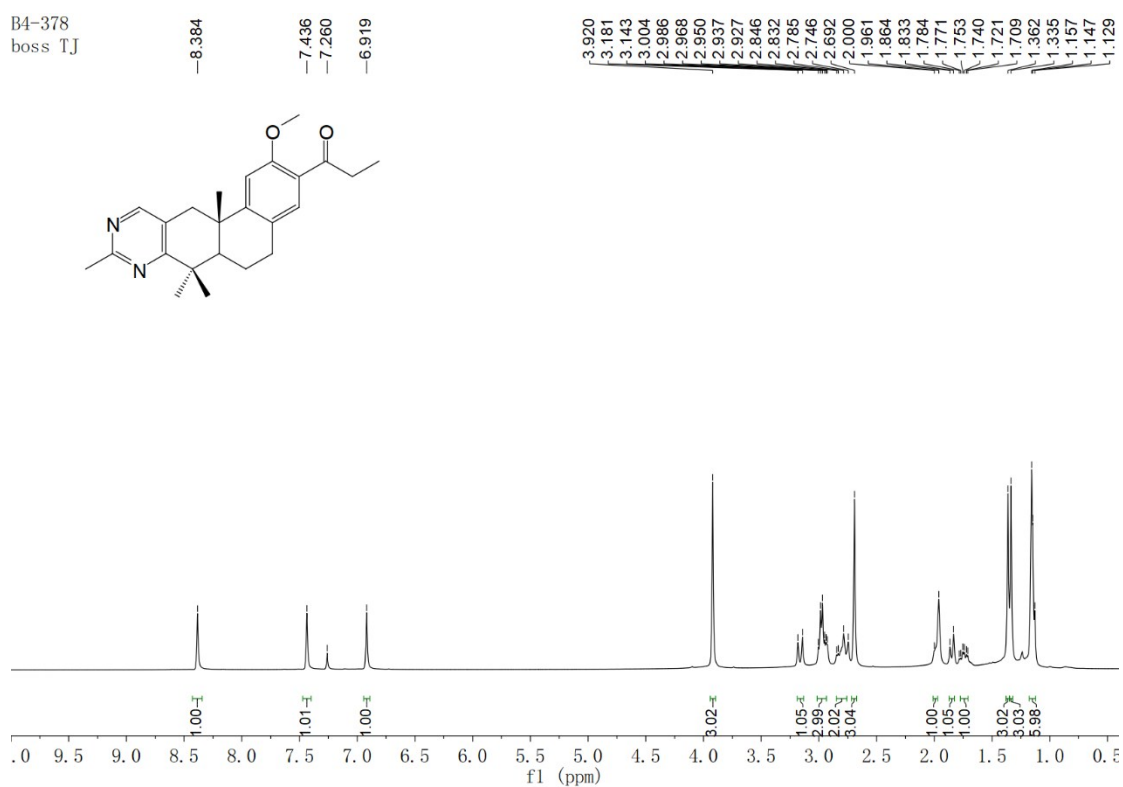


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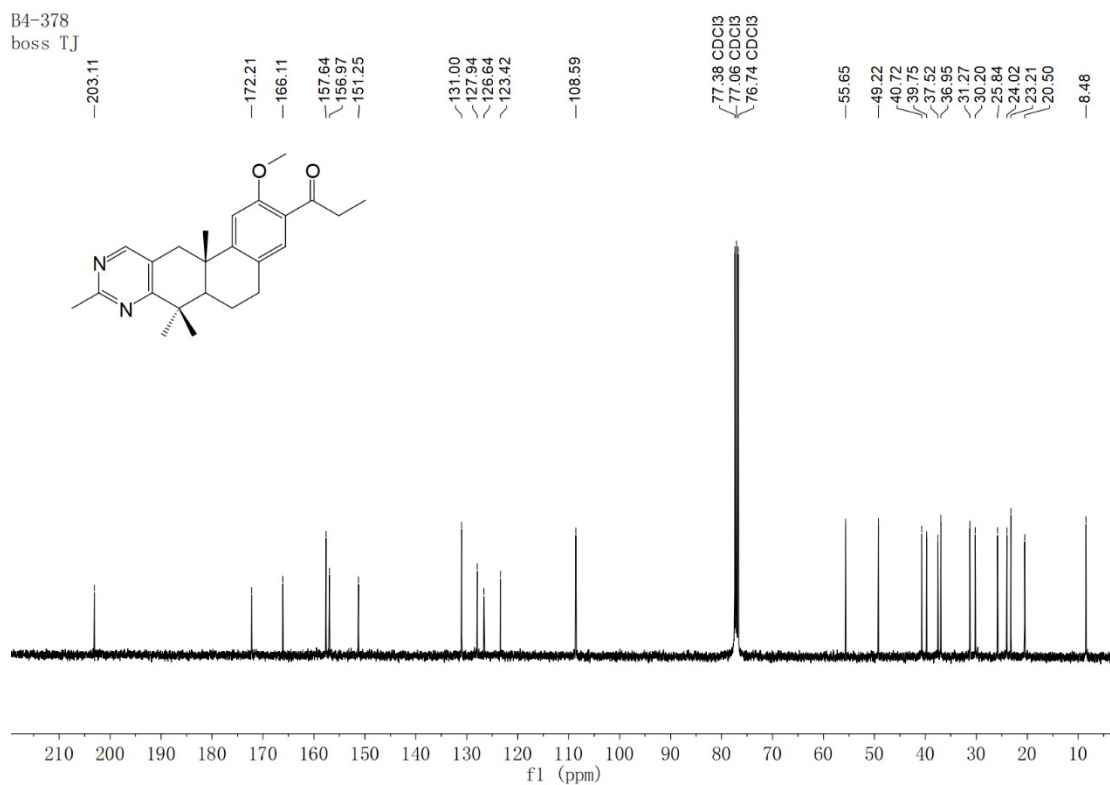


¹H NMR (400 MHz, CDCl₃) and ¹³C NMR (100 MHz, CDCl₃) spectra of compound **8**

B4-378
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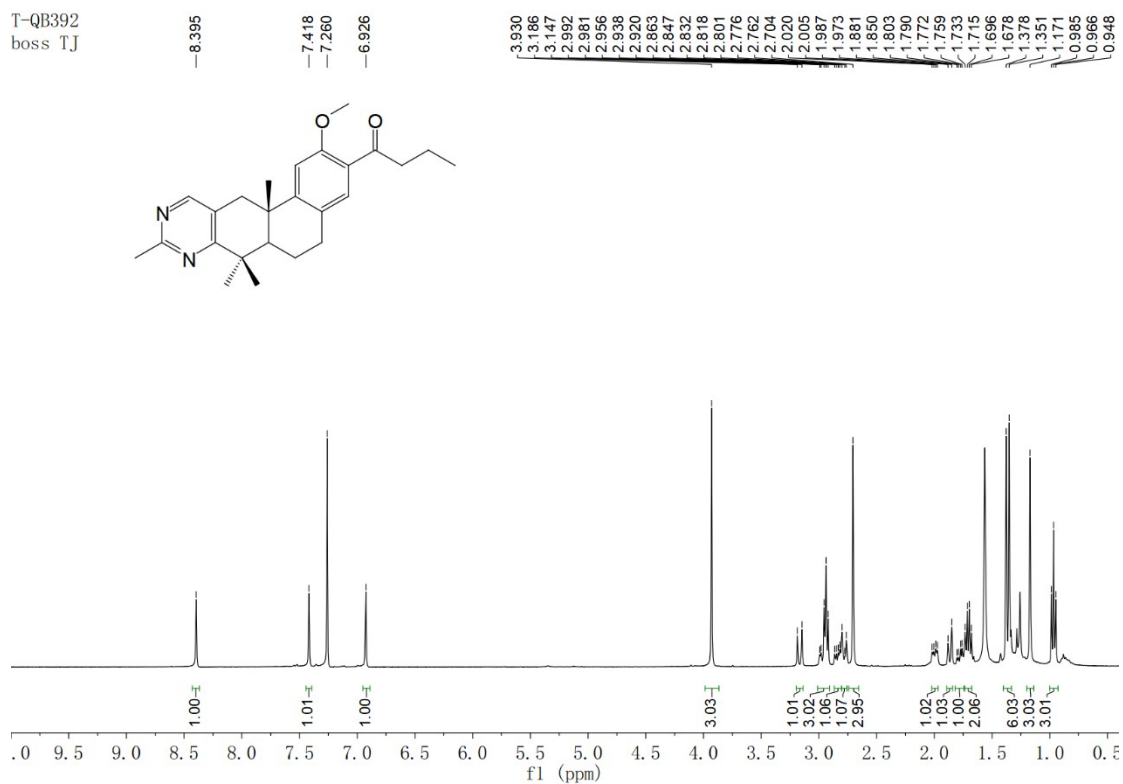


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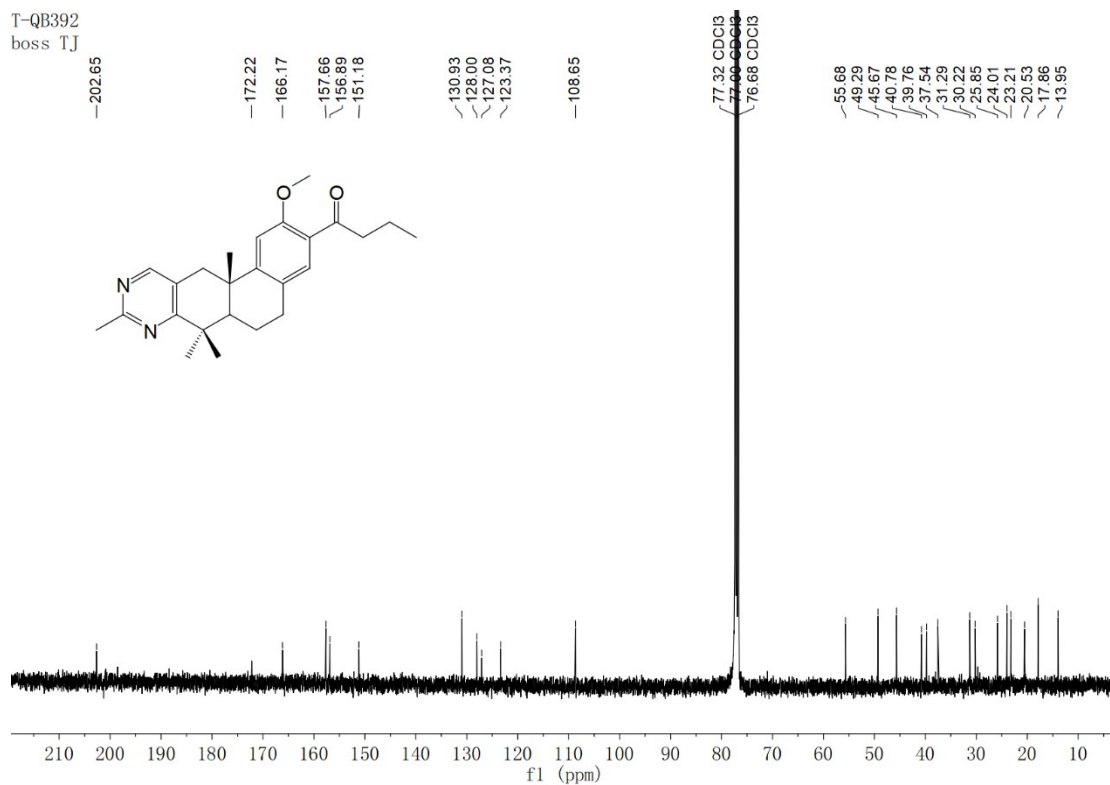


¹H NMR (400 MHz, CDCl₃) and ¹³C NMR (100 MHz, CDCl₃) spectra of compound **9**

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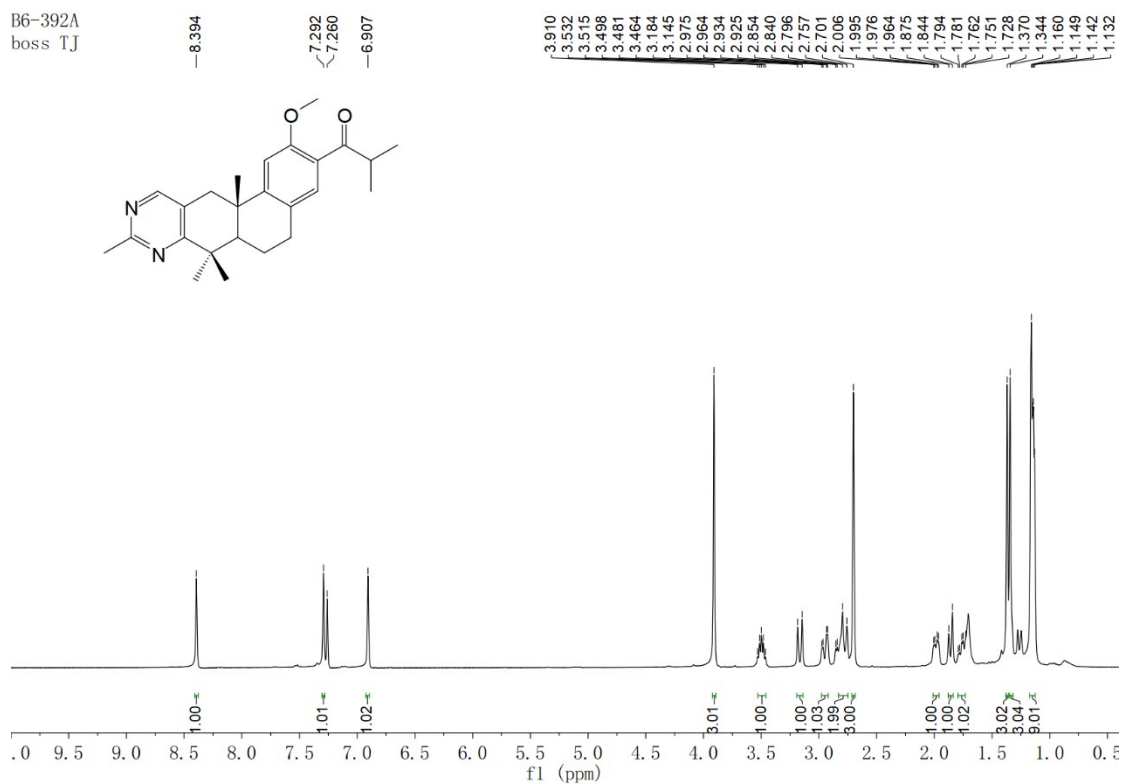


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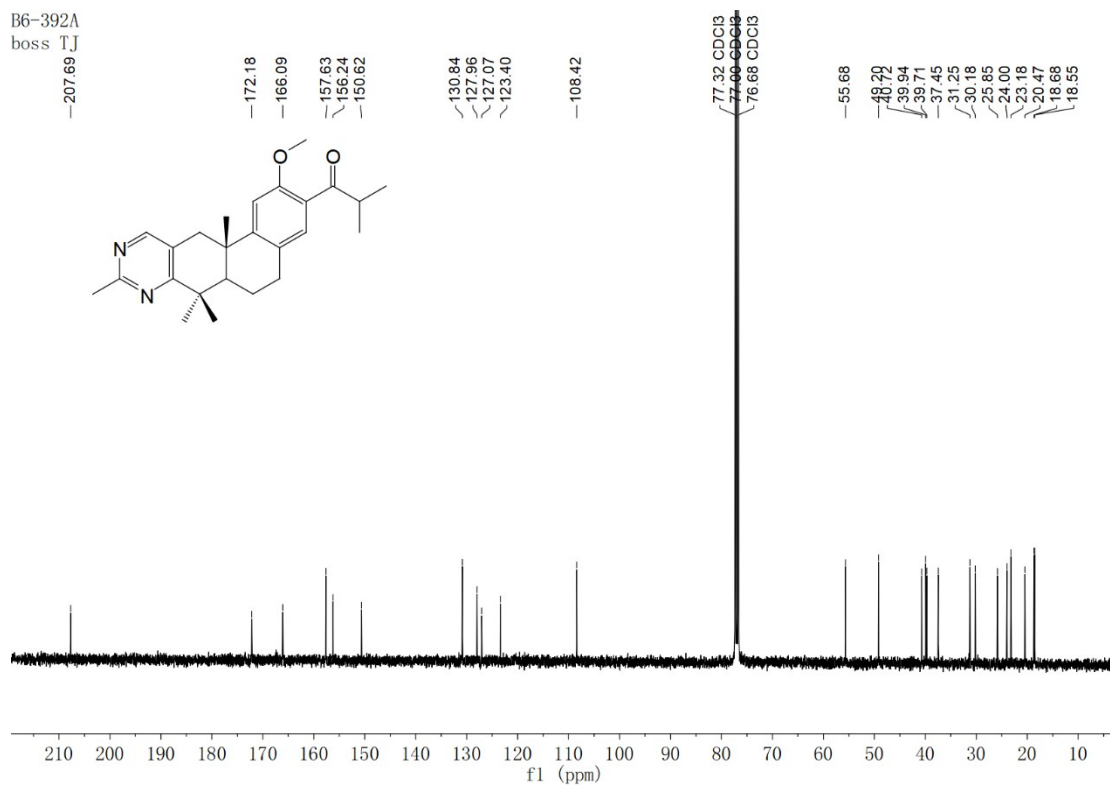


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **10**

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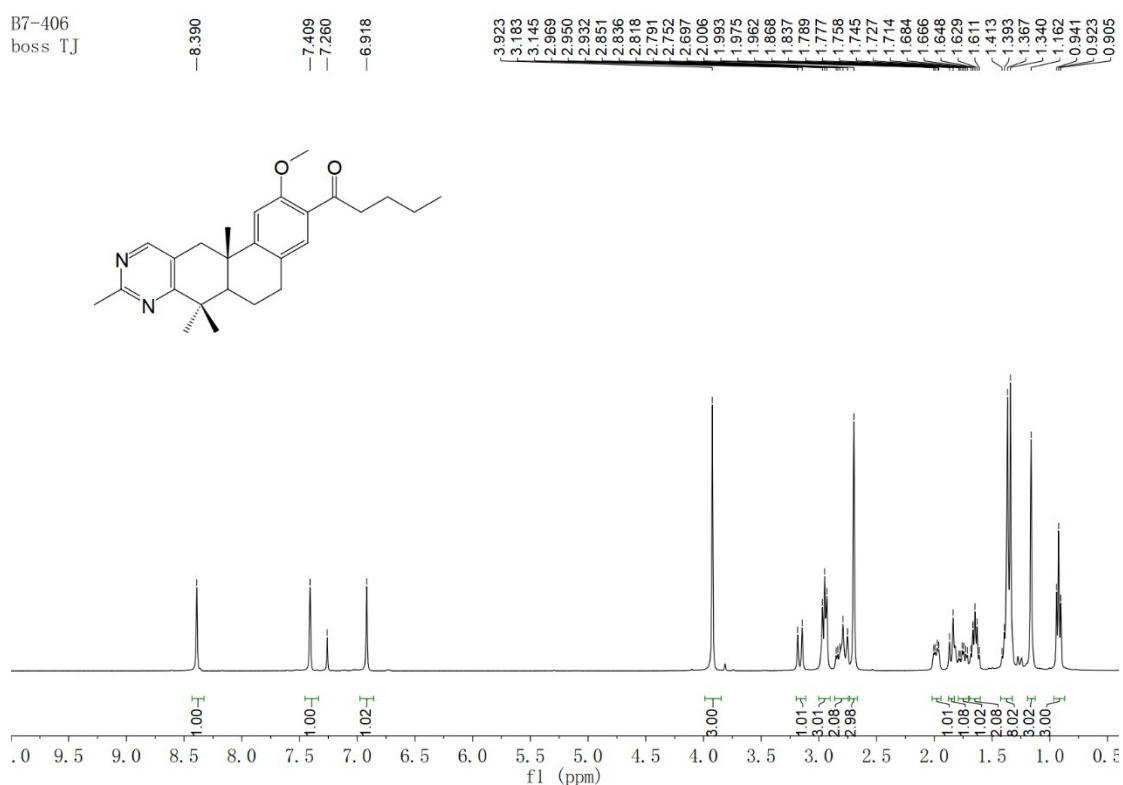


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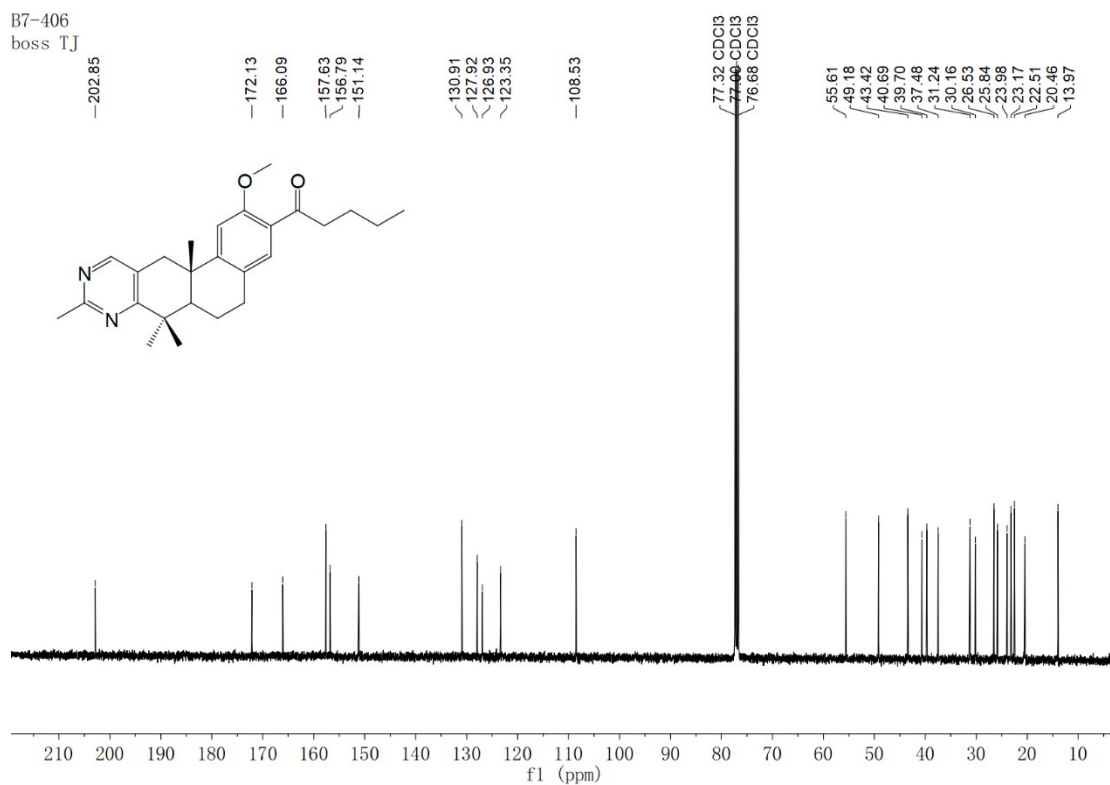


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **11**

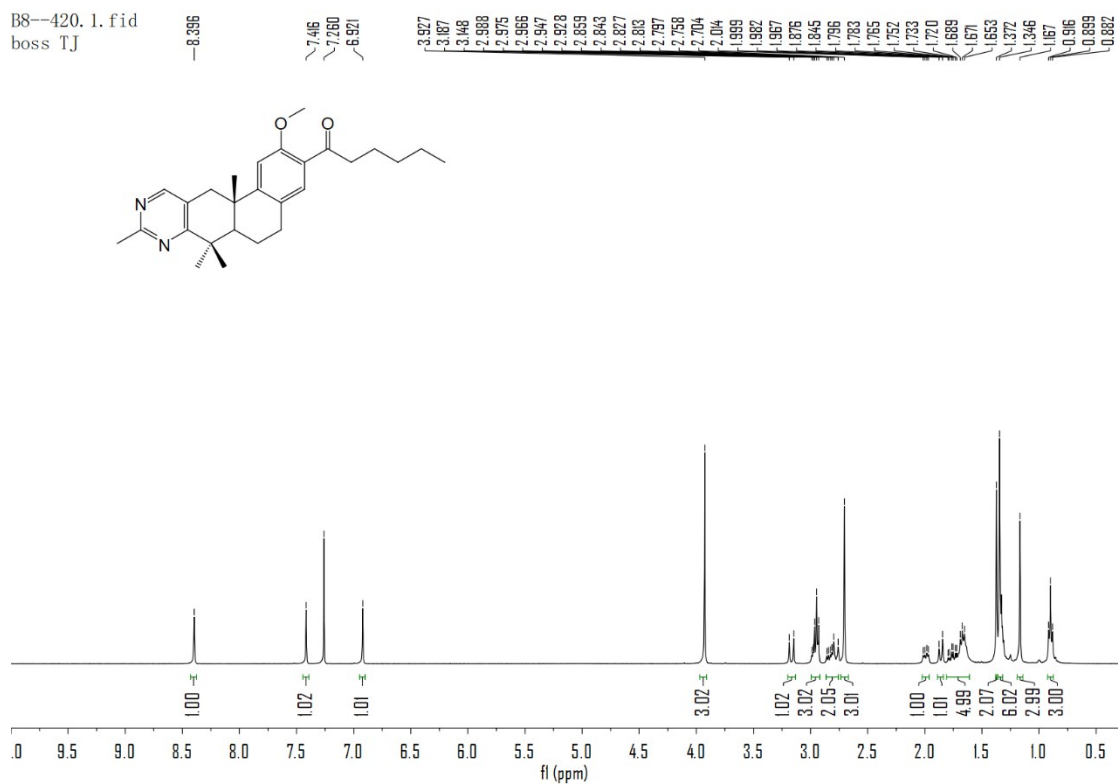
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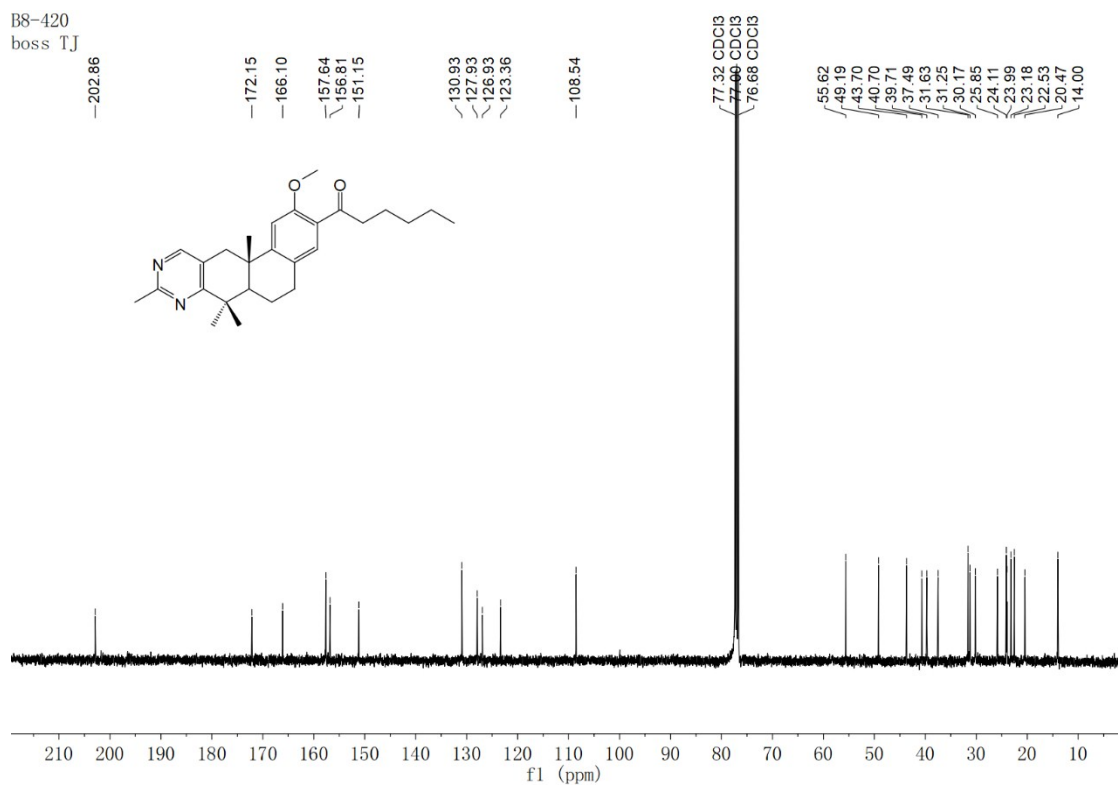
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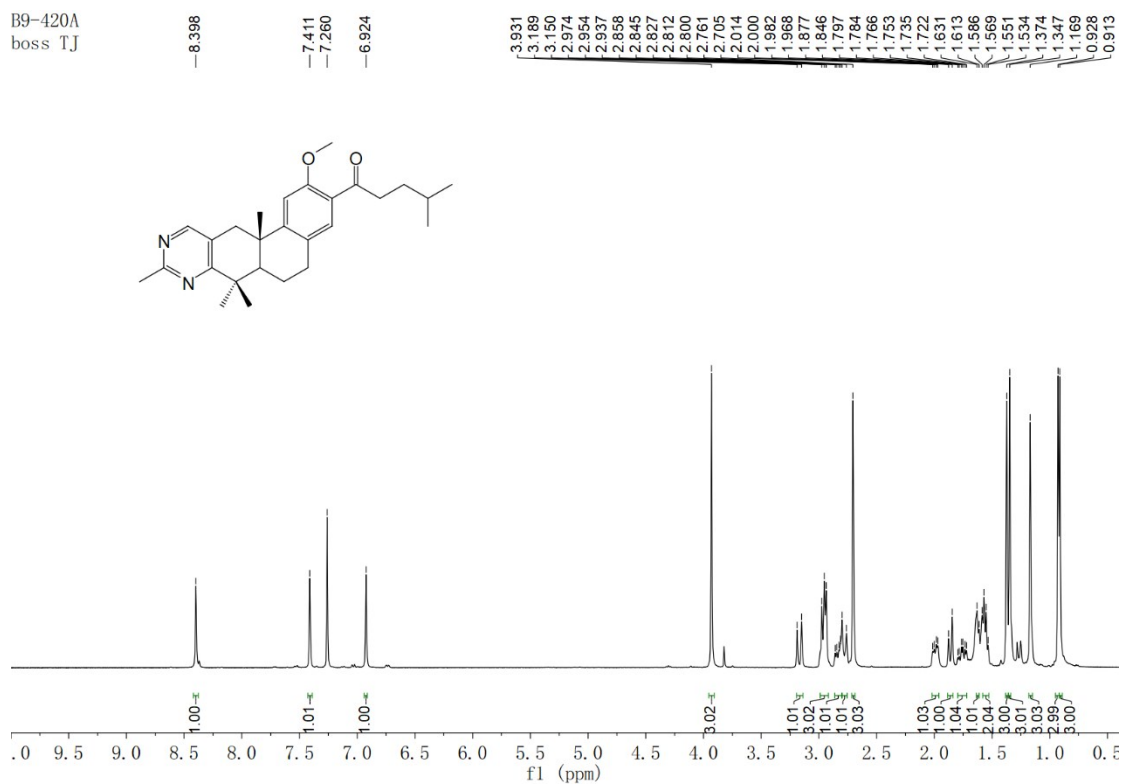


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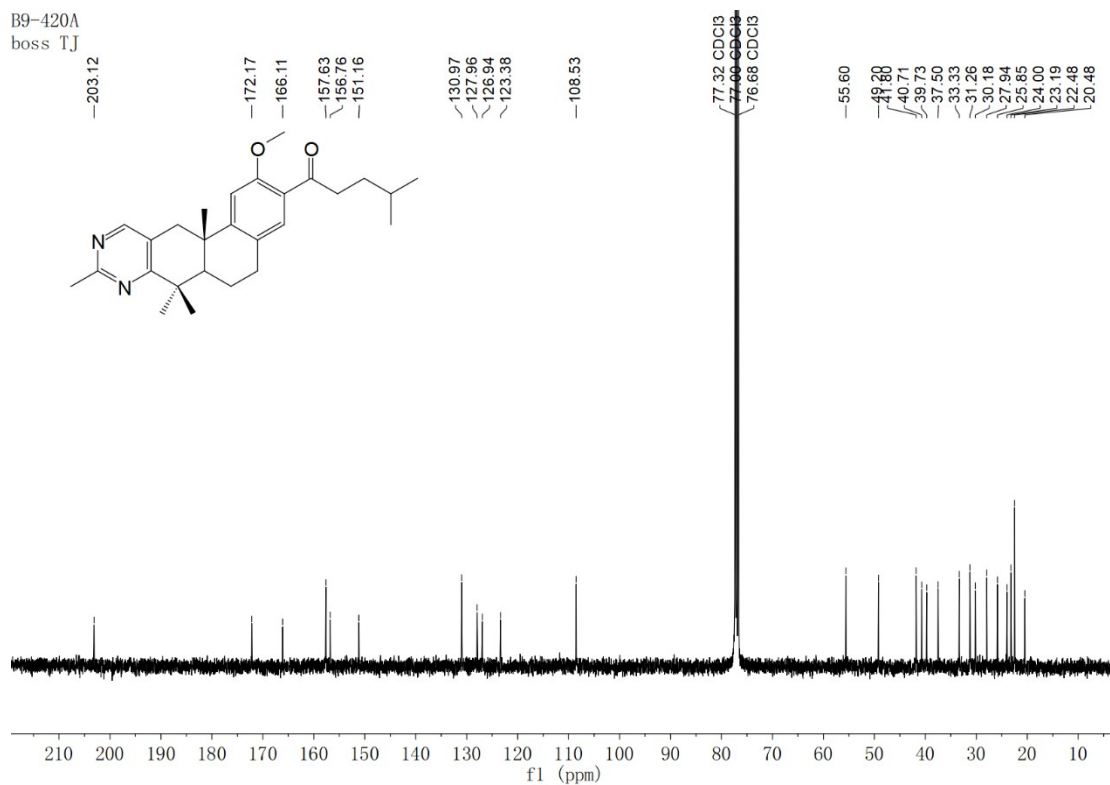


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **13**

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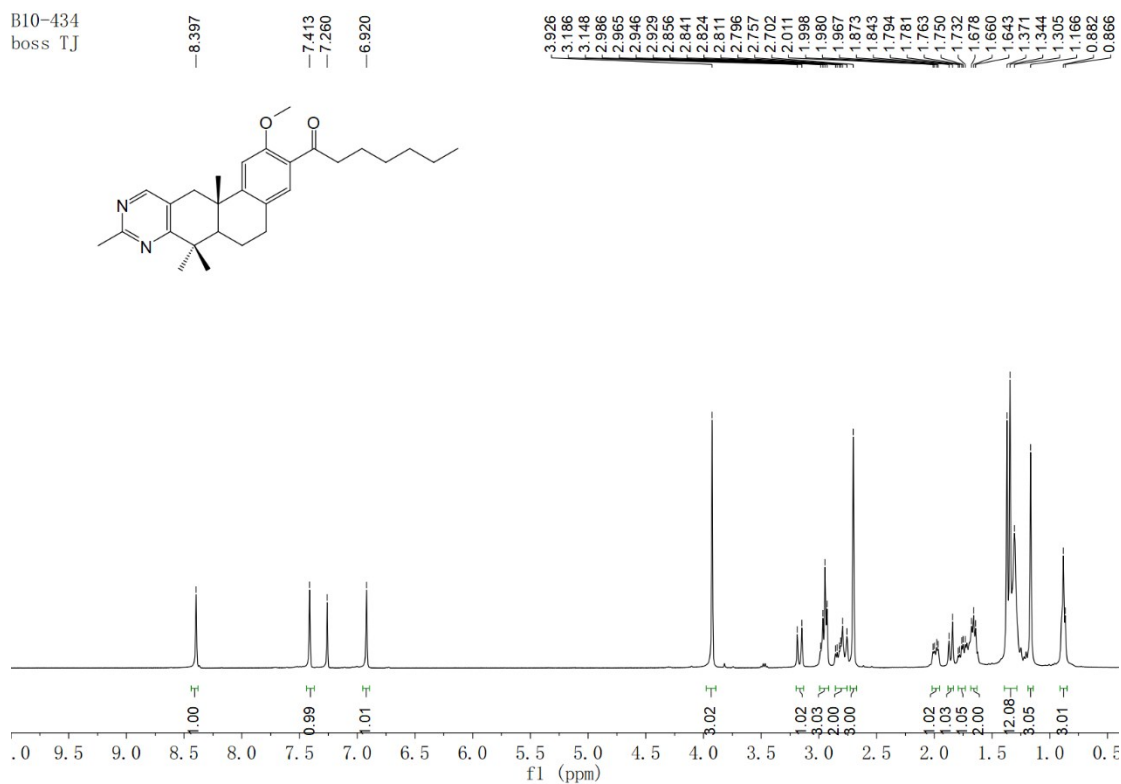


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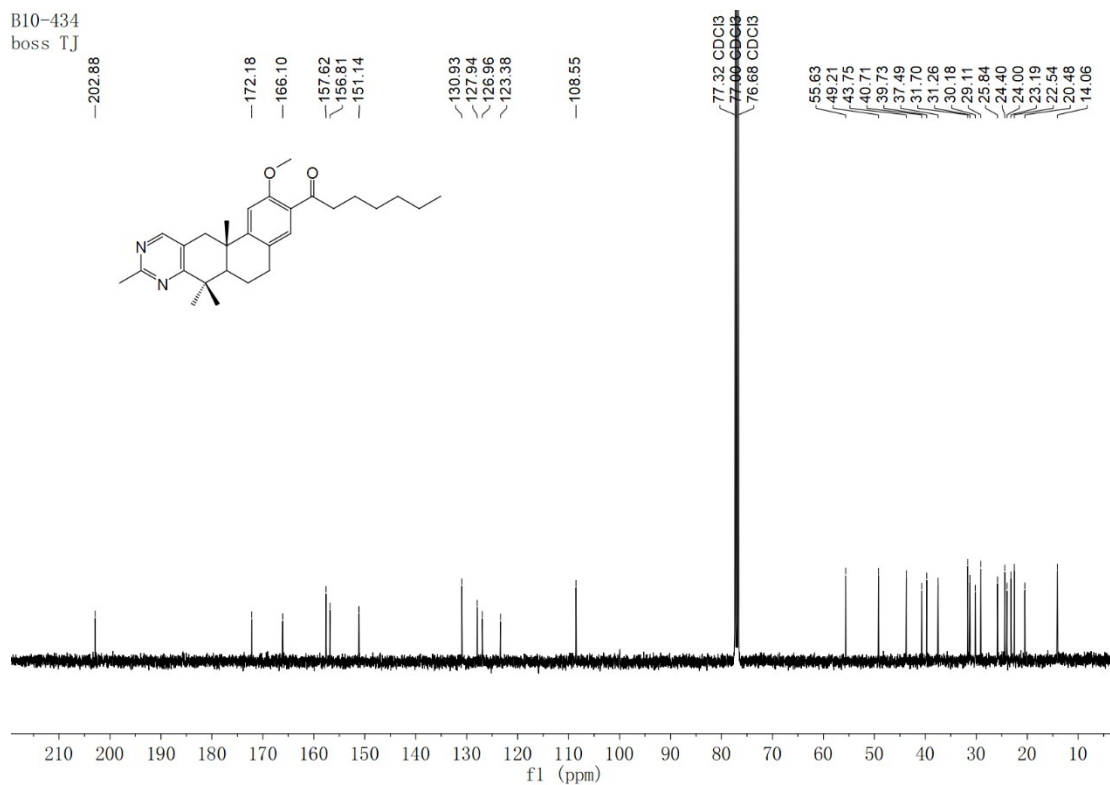


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **14**

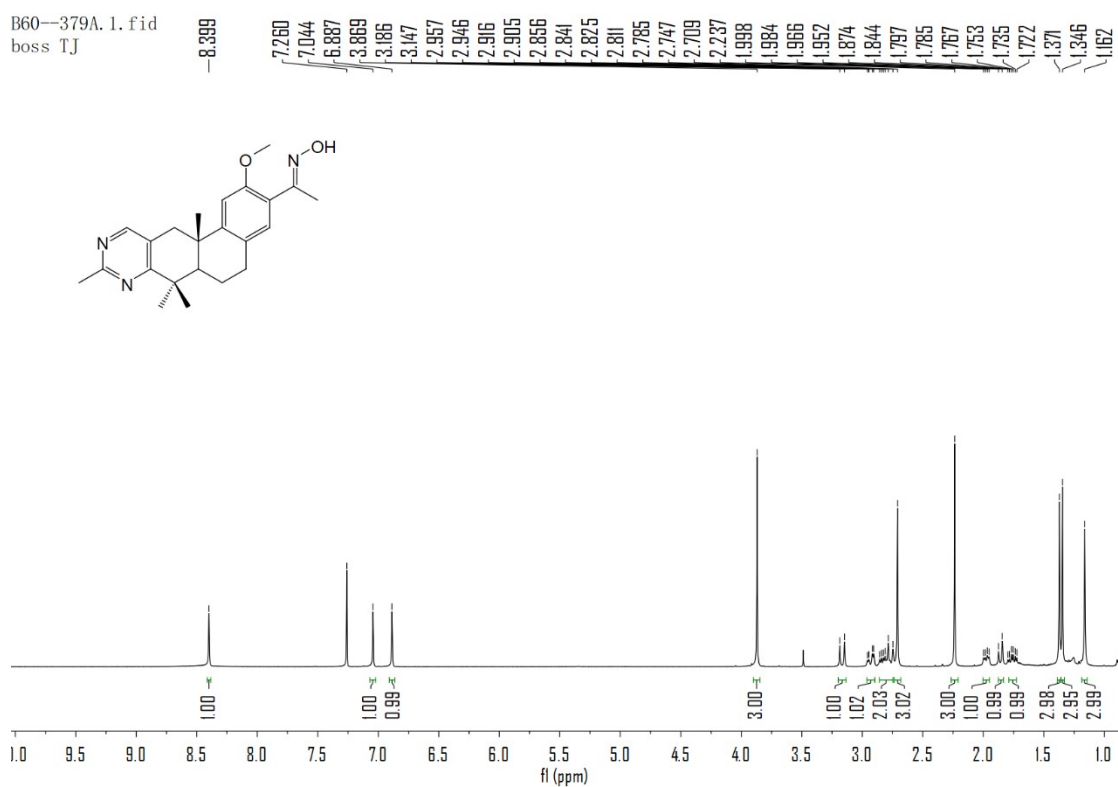
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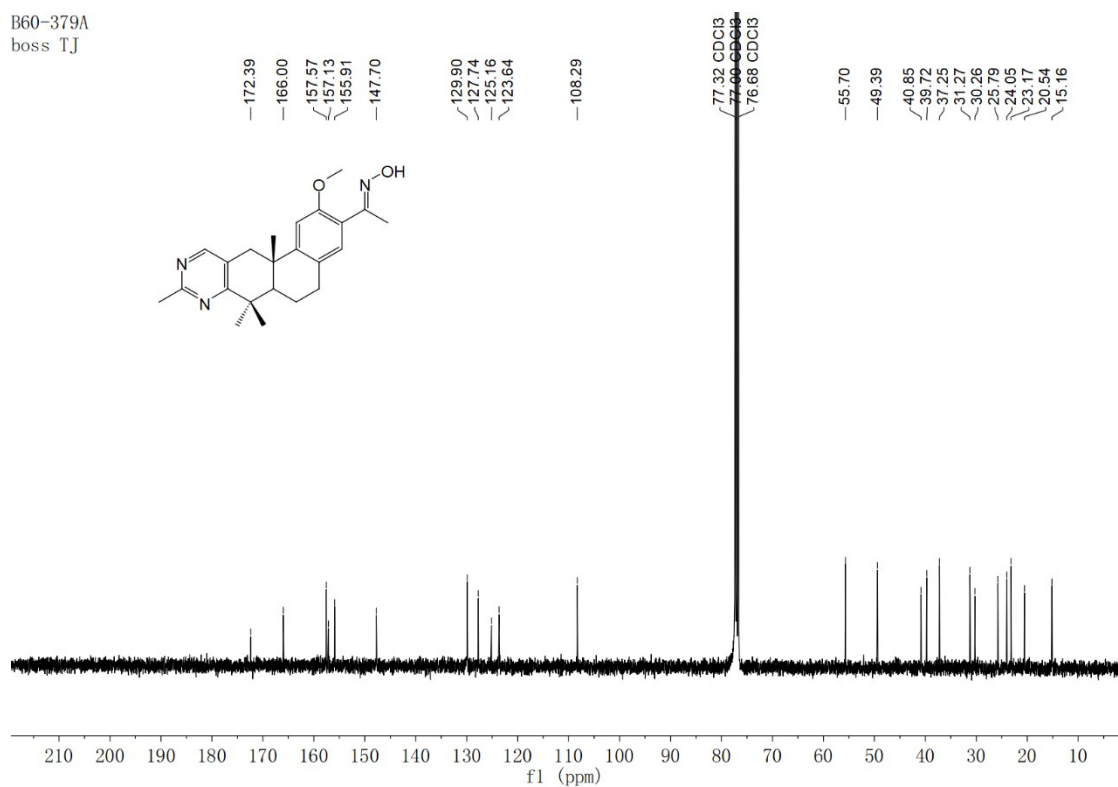
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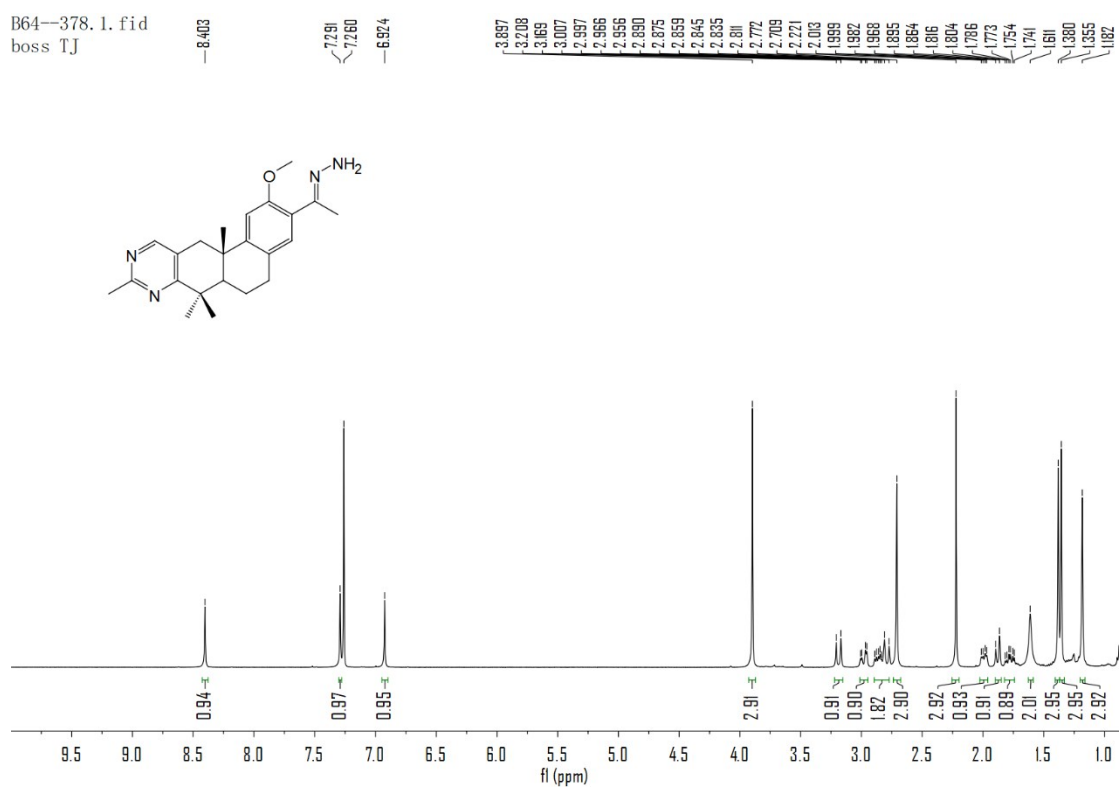


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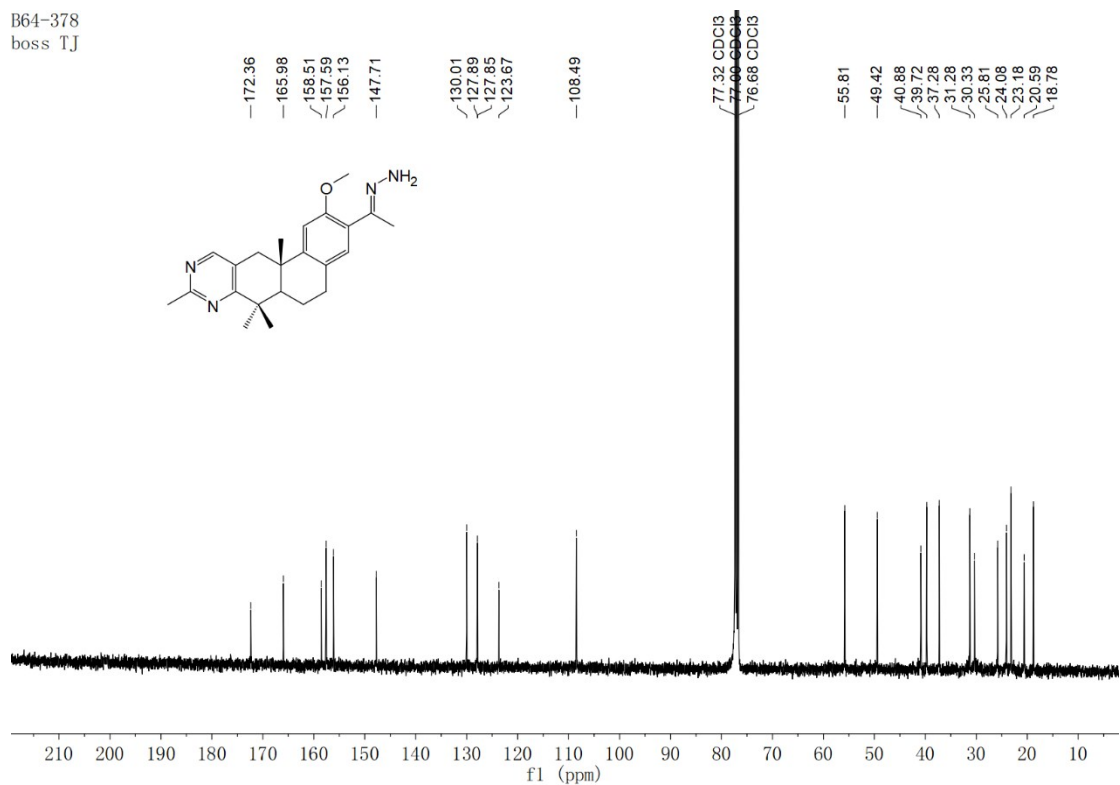


¹H NMR (400 MHz, CDCl₃) and ¹³C NMR (100 MHz, CDCl₃) spectra of compound **16**

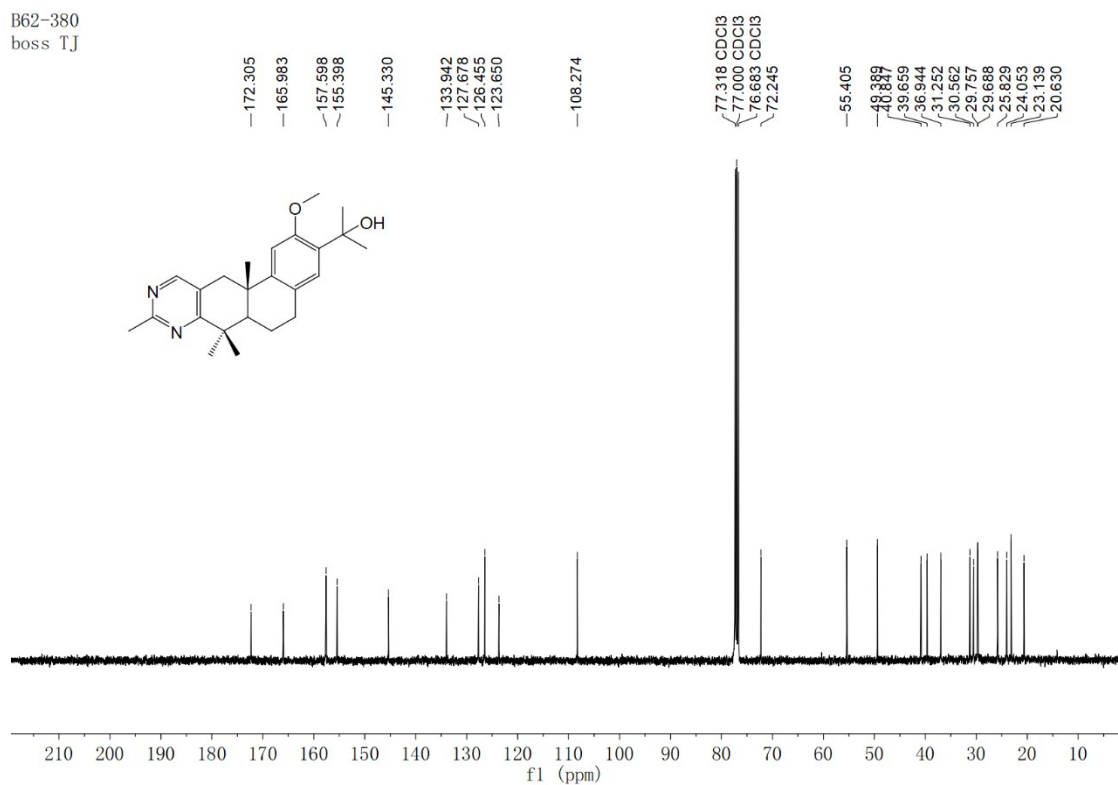
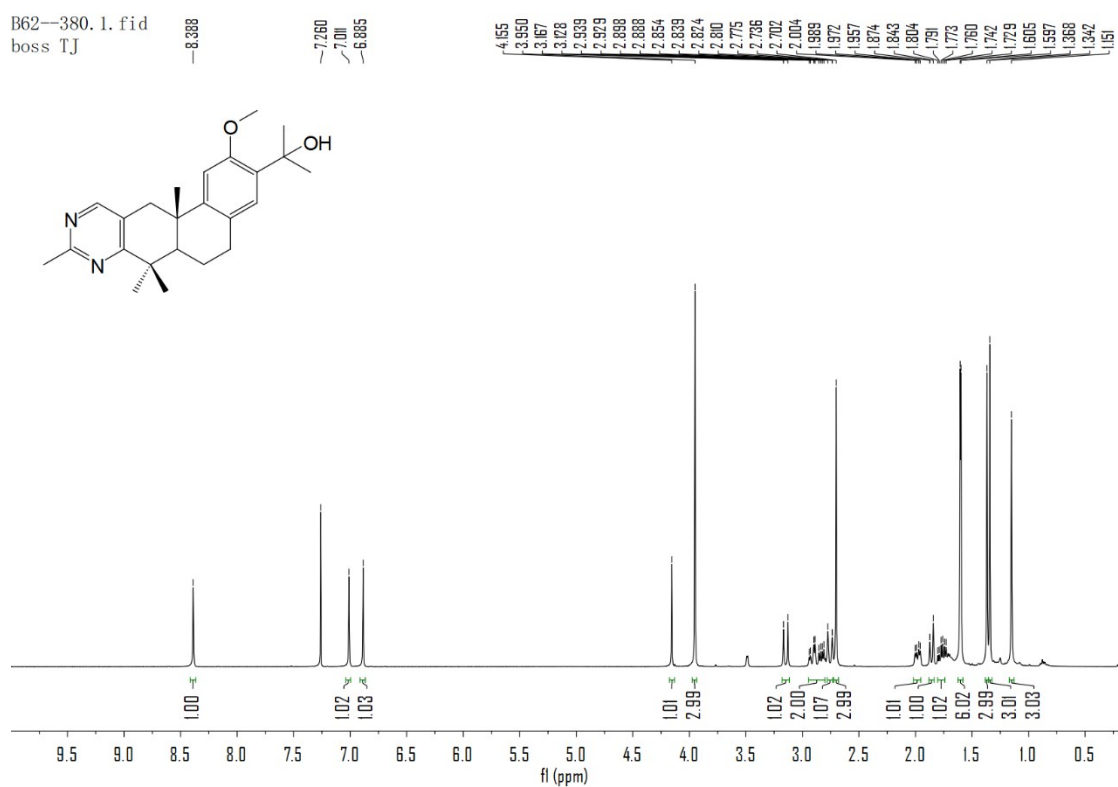
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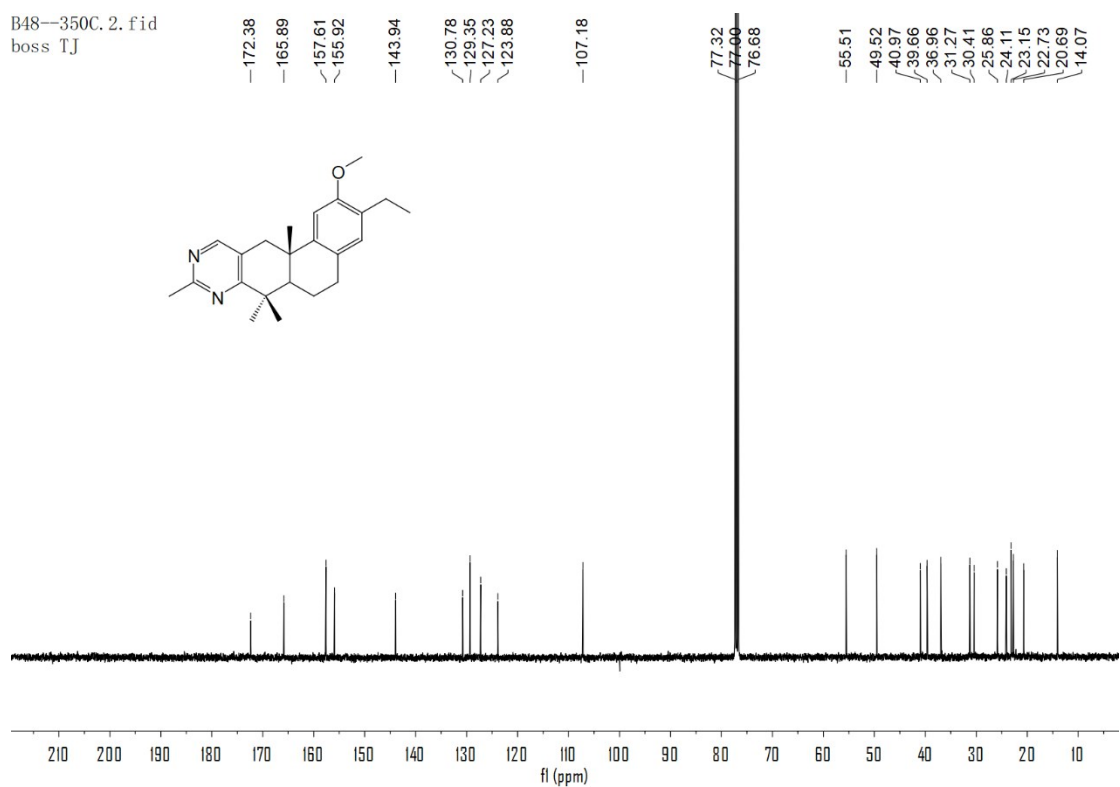
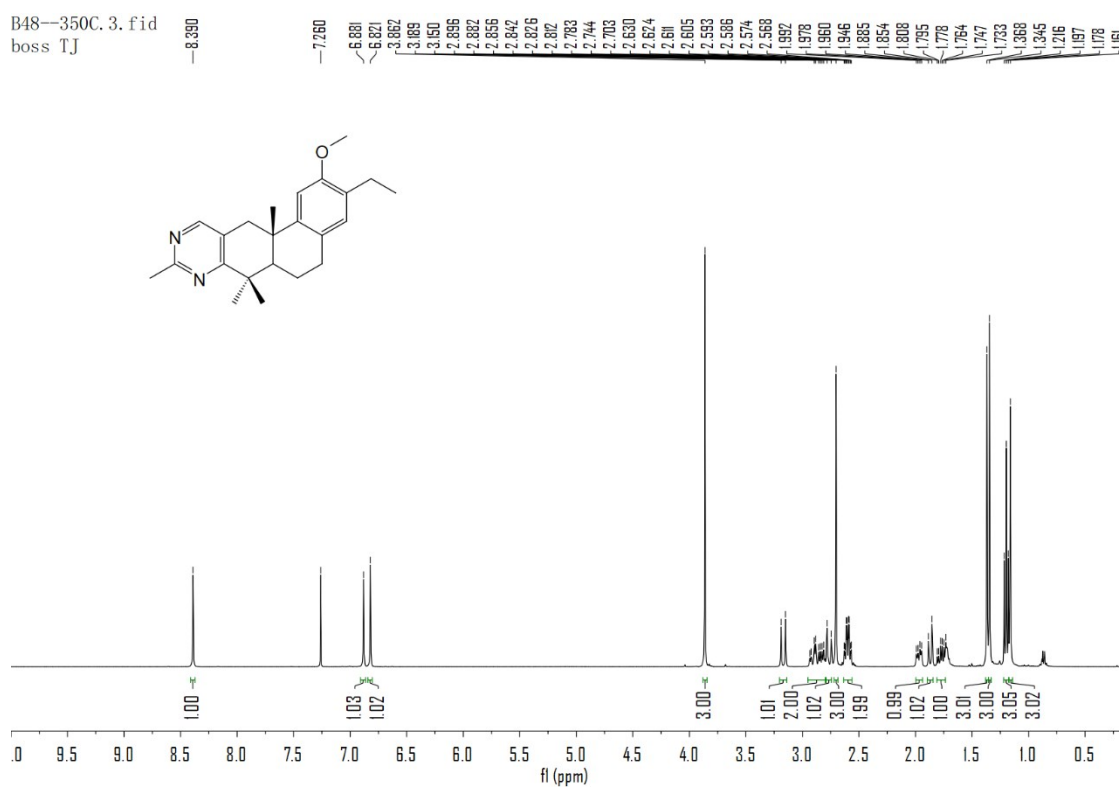
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^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **17**

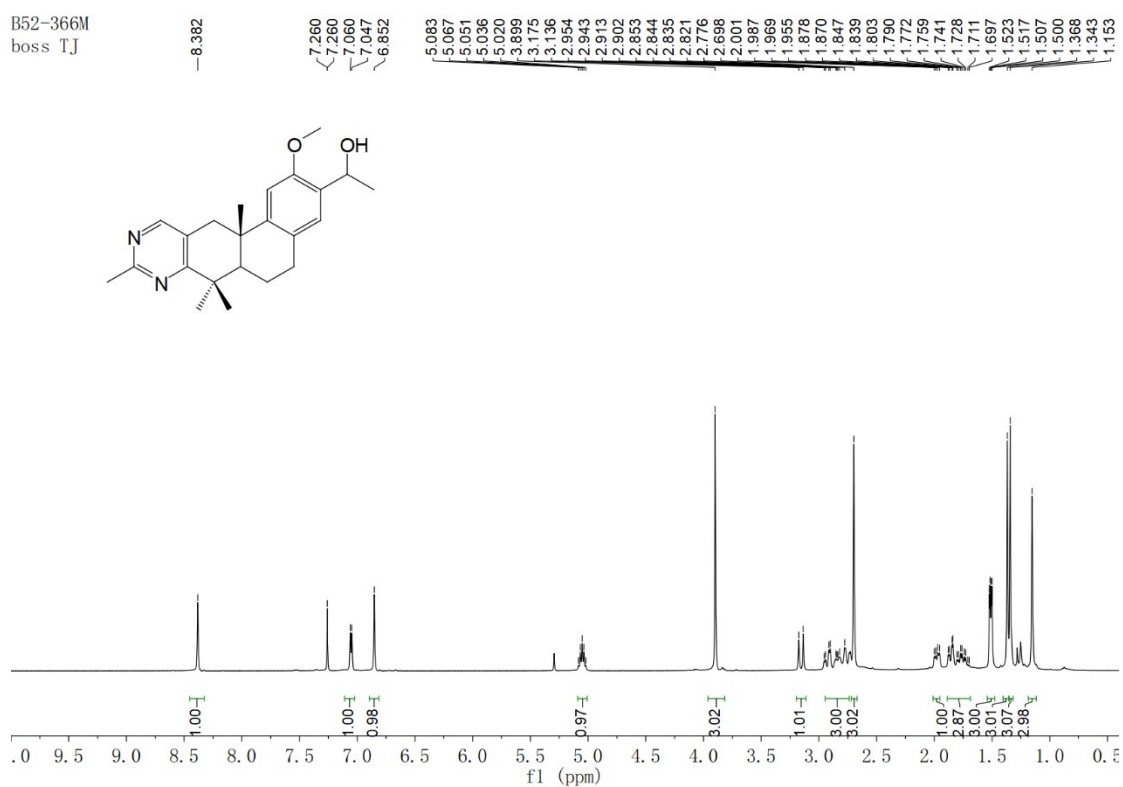


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **18**

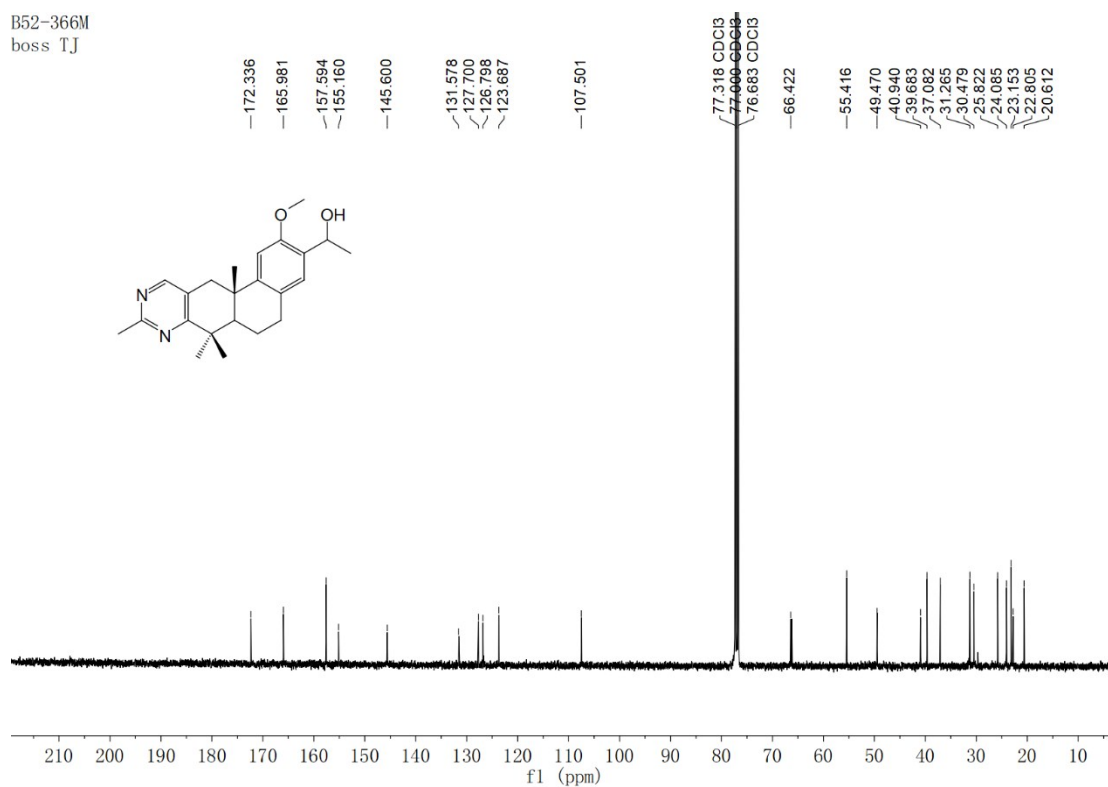


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **19**

B52-366M
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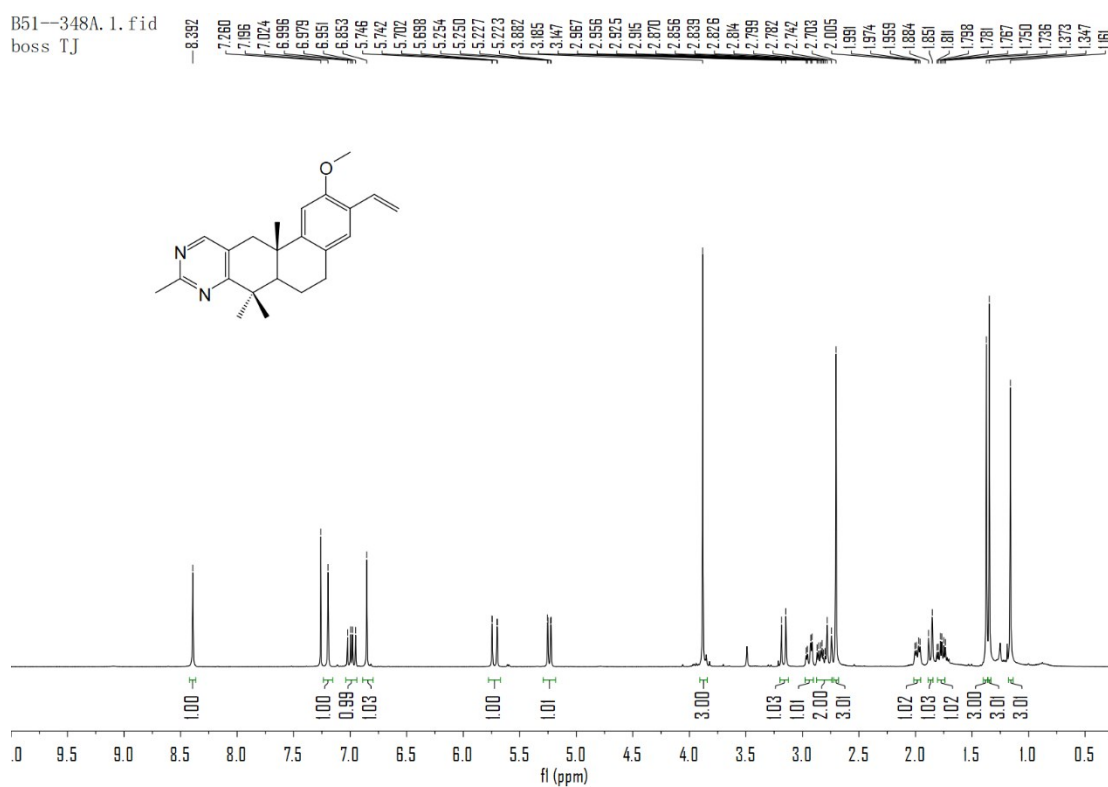


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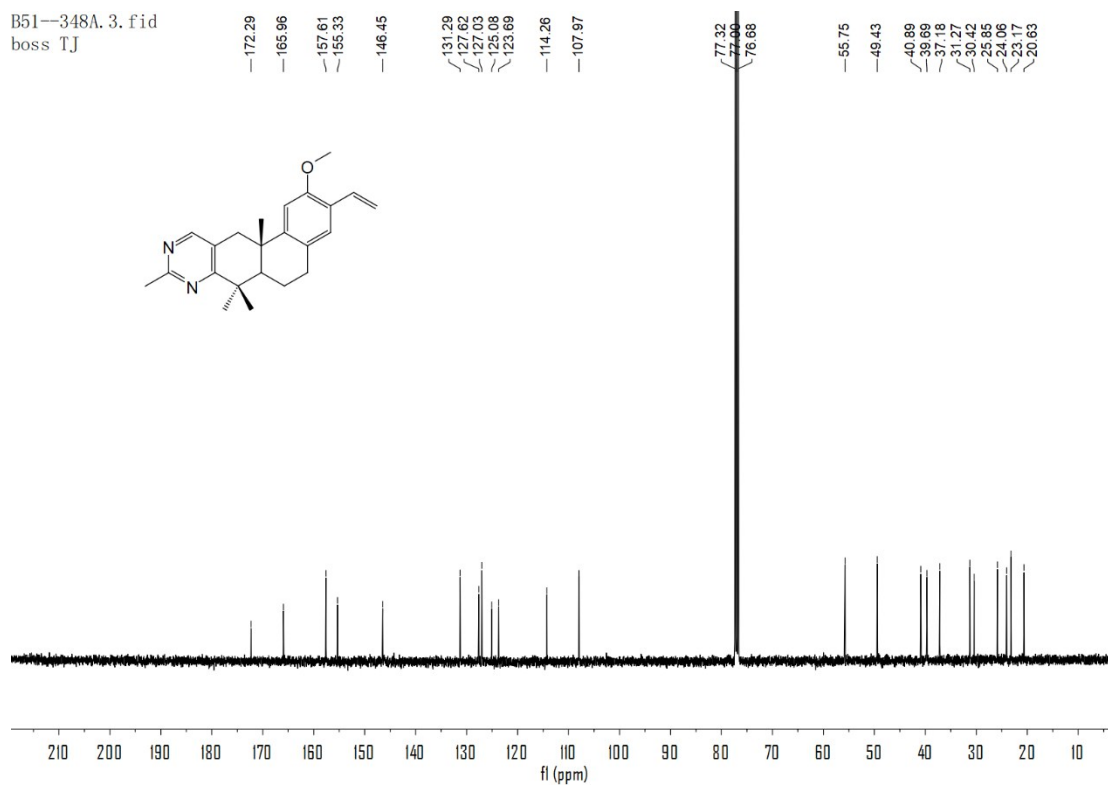


^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **20**

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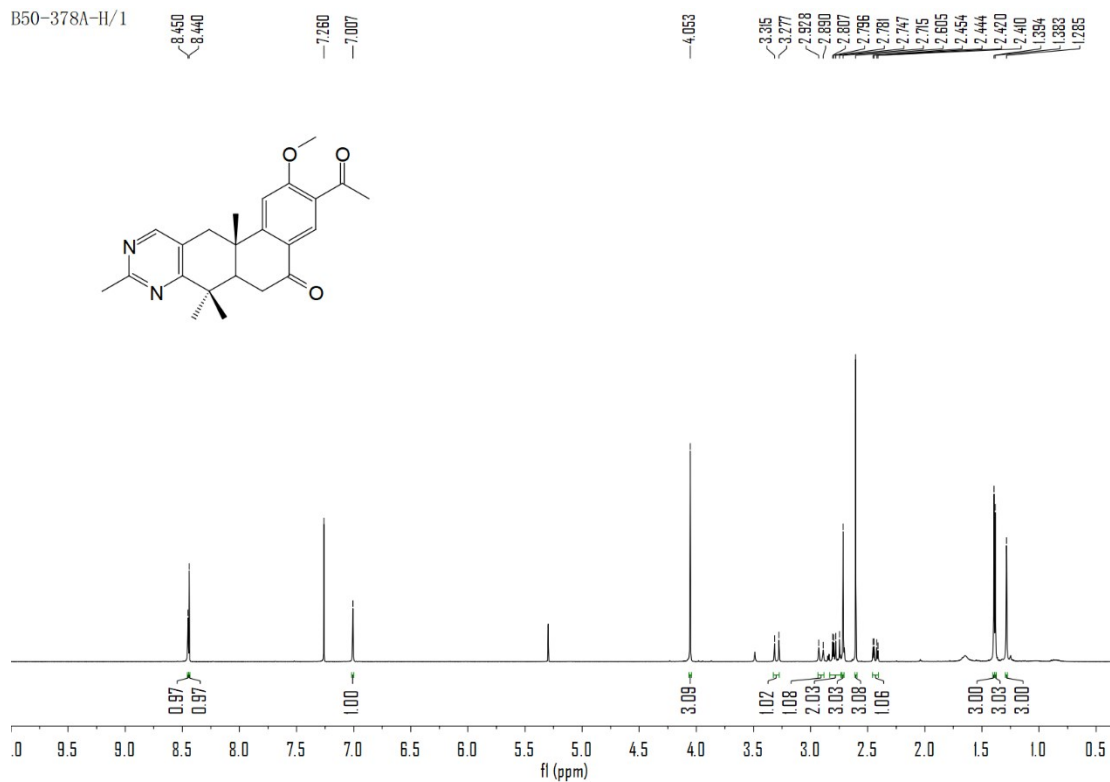


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^1H NMR (400 MHz, CDCl_3) and ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **21**

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