

Supplementary Materials for

The Design, Synthesis and Evaluation of Rho-kinase Inhibitory Activity of 4-aryl-thiazole-2-amines

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Figure S1-S23

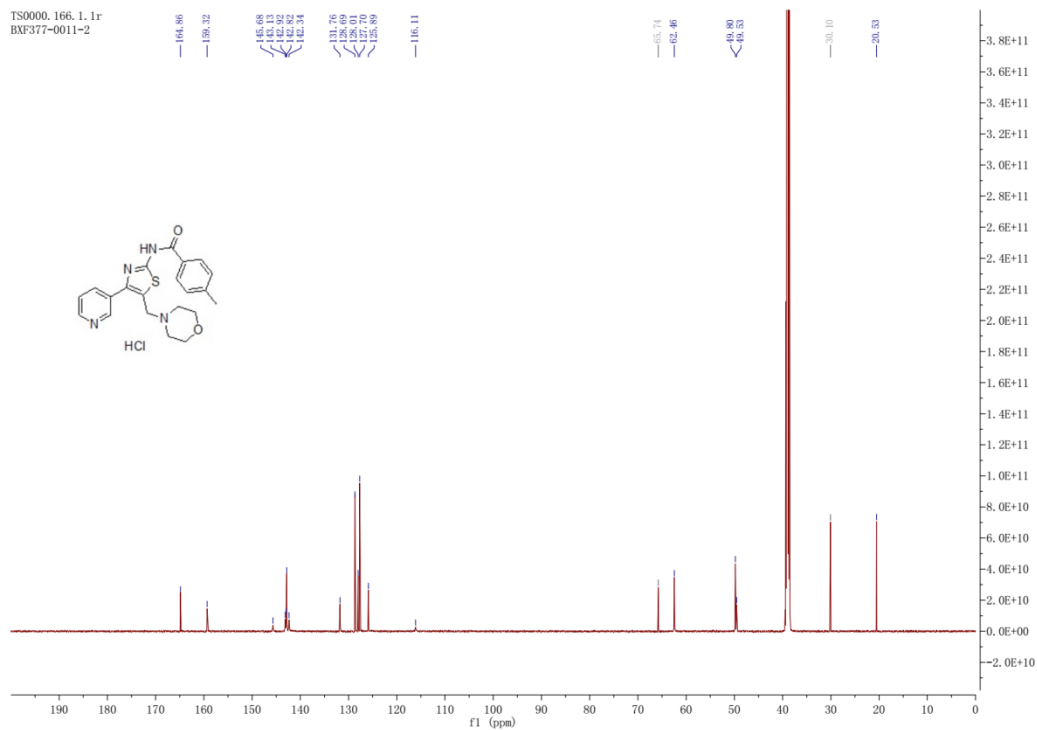
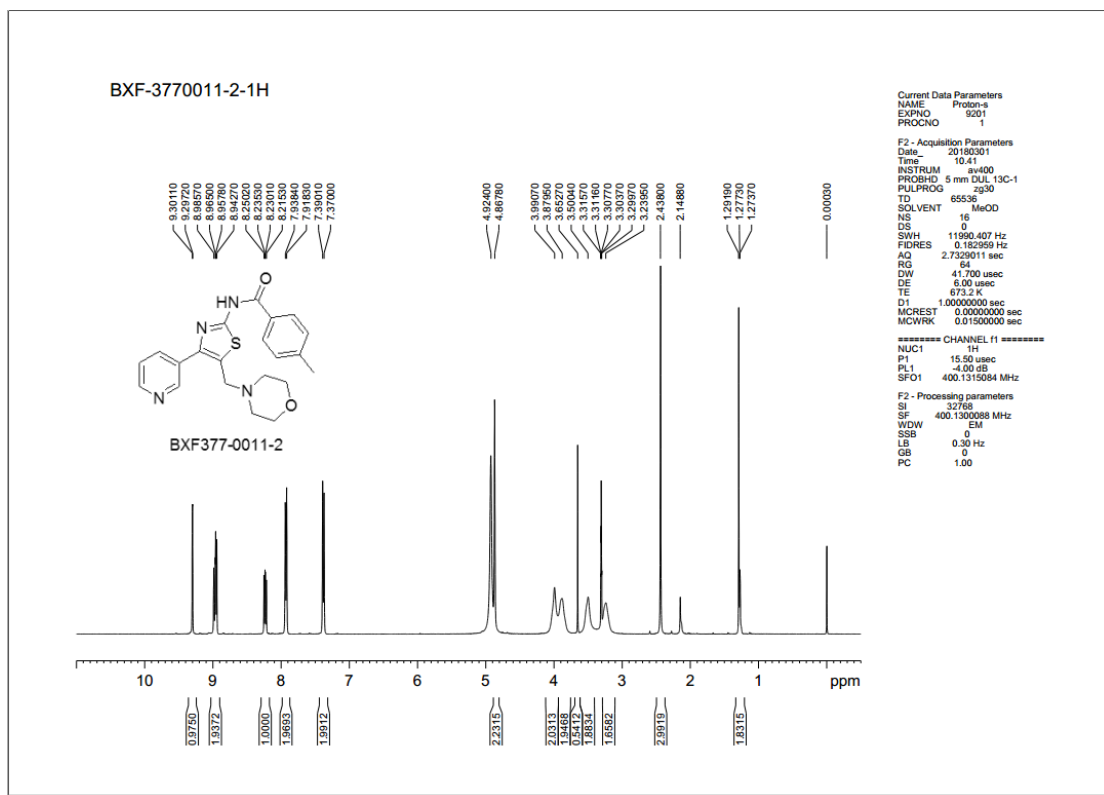
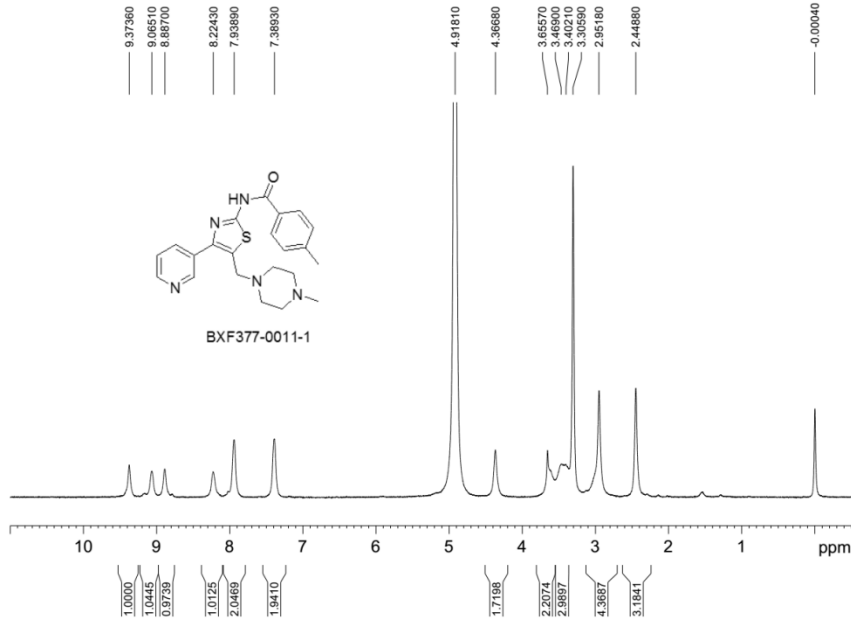


Figure S1. ¹H-NMR and ¹³C-NMR spectrum of **4a**.

BXF-3770011-1-1H



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NAME Proton-s
EXPNO 3200
PROCNO 1

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Time 10.34
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PULPROG zg30
TD 65536
SOLVENT MeOD
NS 16
DS 0
SWH 11990.407 Hz
FIDRES 0.182959 Hz
AQ 2.7329011 sec
RG 64
DW 41.700 usec
DE 6.00 usec
TE 373.2 K
D1 1.00000000 sec
MCREST 0.00000000 sec
MCWRK 0.01500000 sec

===== CHANNEL f1 =====
NUC1 1H
P1 15.50 usec
PL1 -4.50 dB
SFO1 400.1315084 MHz

F2 - Processing parameters
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SF 400.1301106 MHz
WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

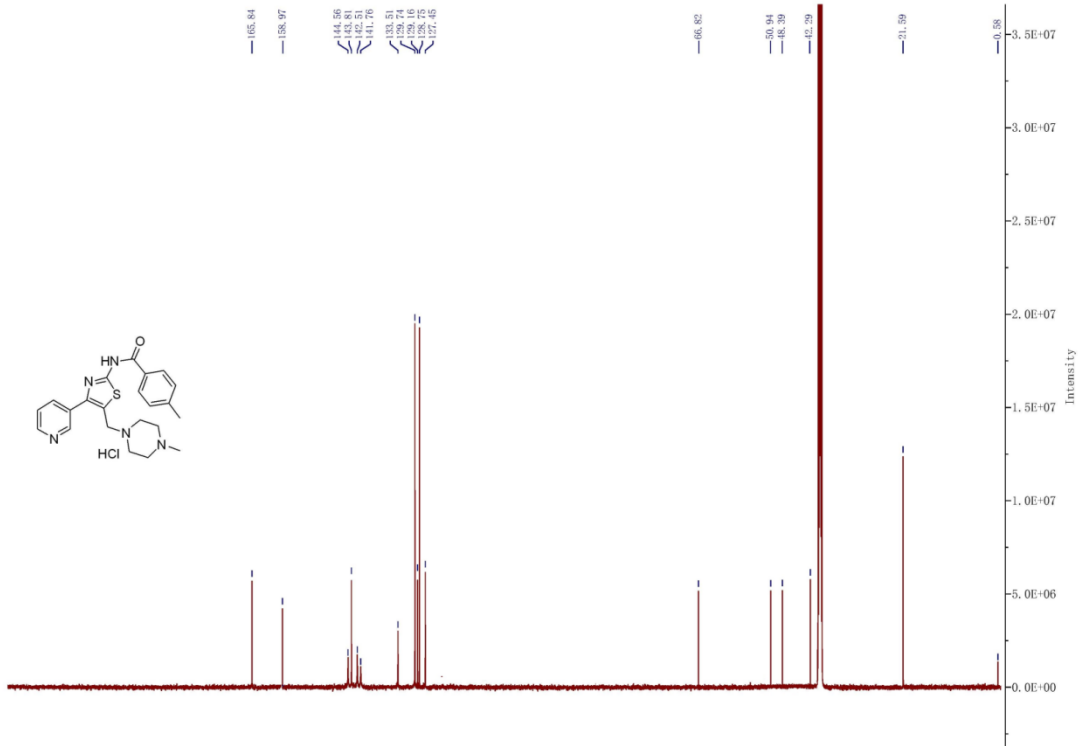
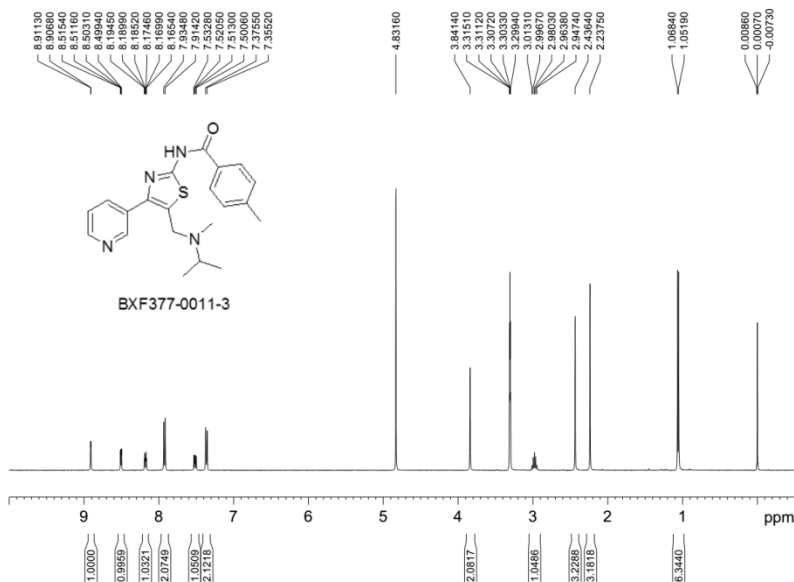


Figure S2. ¹H-NMR and ¹³C-NMR spectrum of **4b**.

BXF-3770011-3-1H



Current Data Parameters
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 EXPNO 9218
 PROCNO 1

F2 - Acquisition Parameters
 Date_ 20180306
 Time 10:29
 INSTRUM spect
 PROBHD 5 mm DUL 13C-1
 PULPROG zg30
 TD 65536
 NS 16
 SOLVENT MeOD
 DS 0
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 64
 DW 41.700 usec
 DE 8.00 usec
 TE 298.2 K
 D1 1.00000000 sec
 MCREST 0.00000000 sec
 MCWRR 0.01500000 sec

===== CHANNEL f1 =====
 NUC1 13C
 P1 15.50 usec
 PL1 -4.00 dB
 SFO1 400.1315984 MHz

F2 - Processing parameters
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 SF 400.130088 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

TS0000.167.1.1r
 BXF377-0011-3

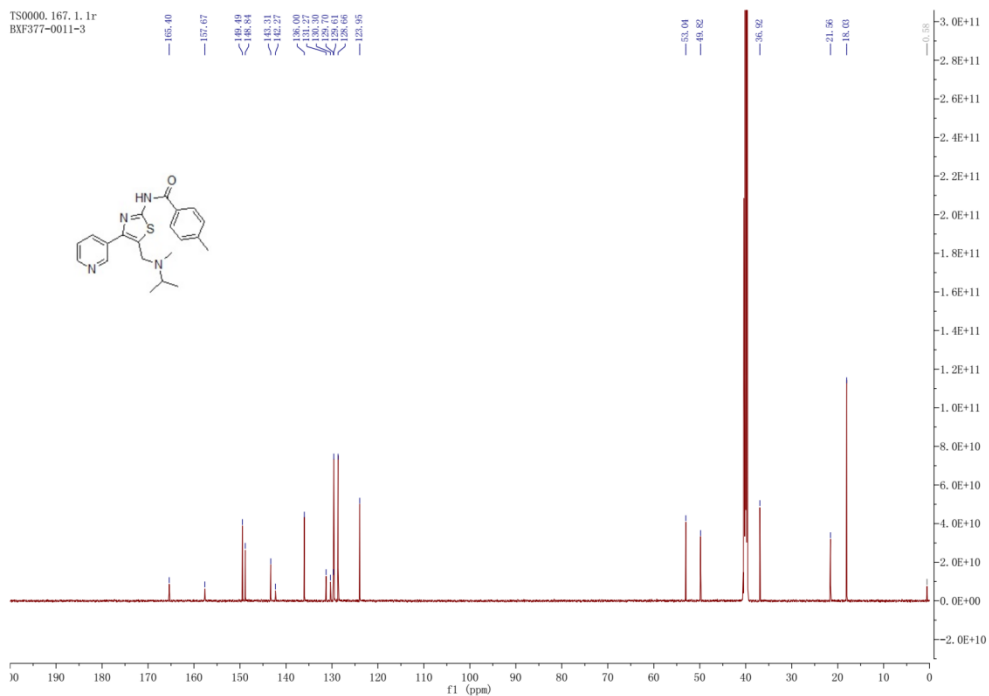


Figure S3. ¹H-NMR and ¹³C-NMR spectrum of 4c.

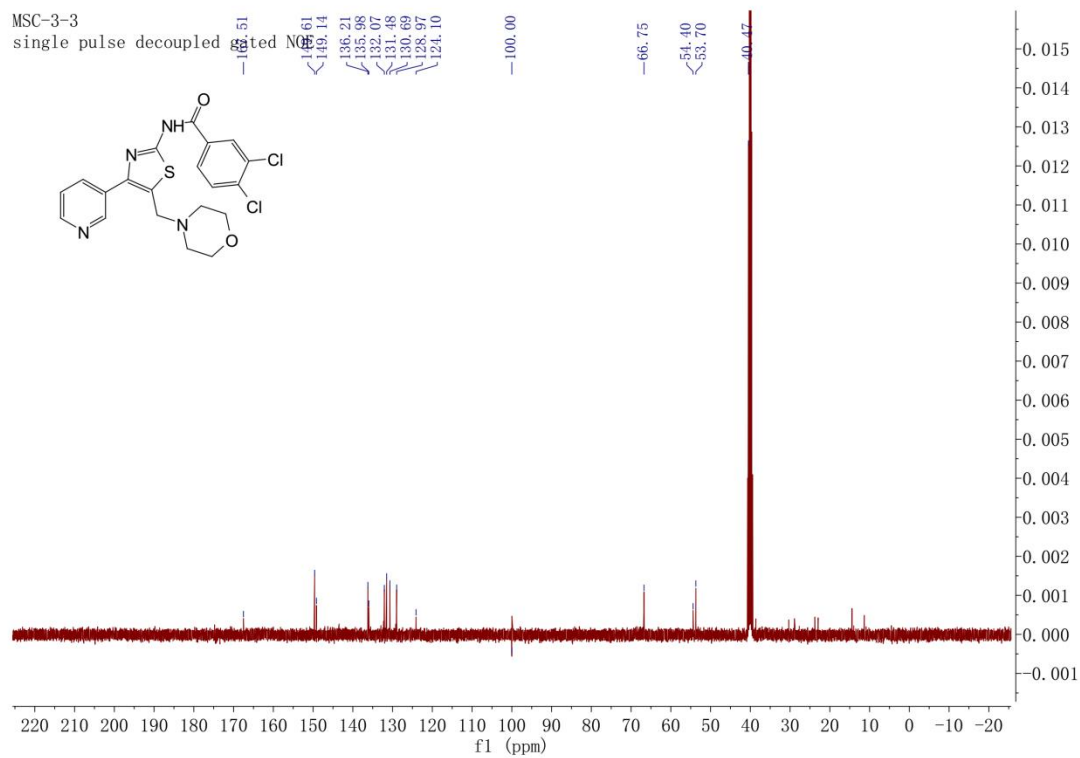
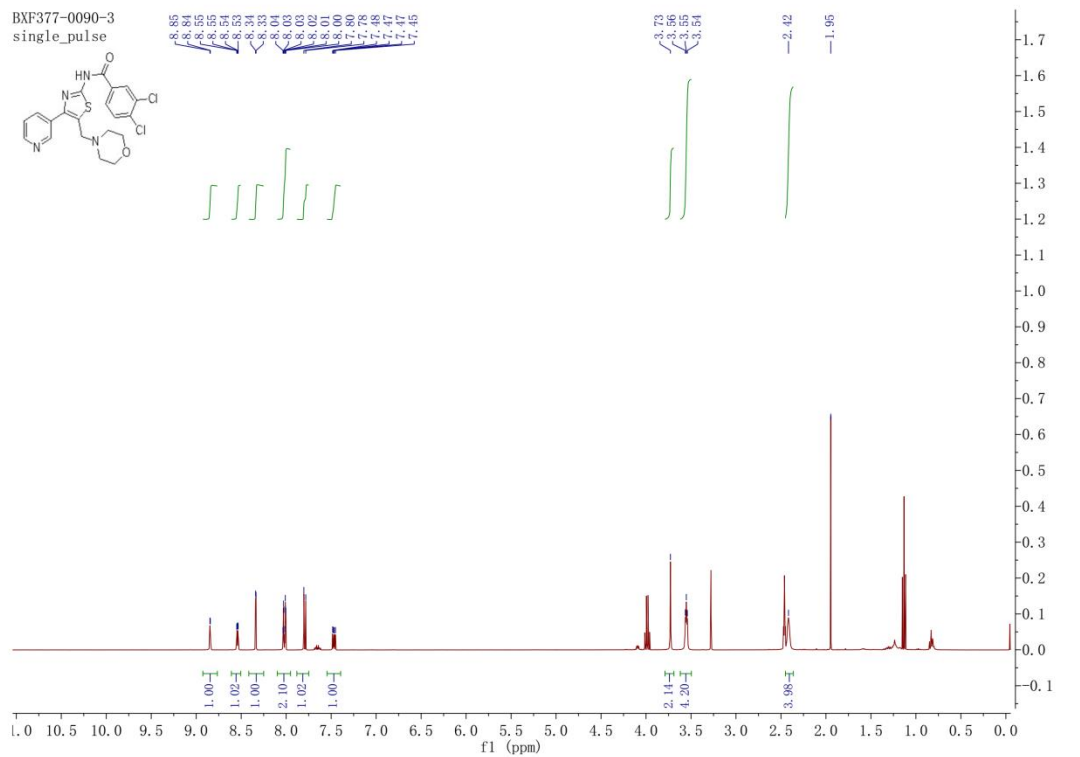


Figure S4. ^1H -NMR and ^{13}C -NMR spectrum of **4d**.

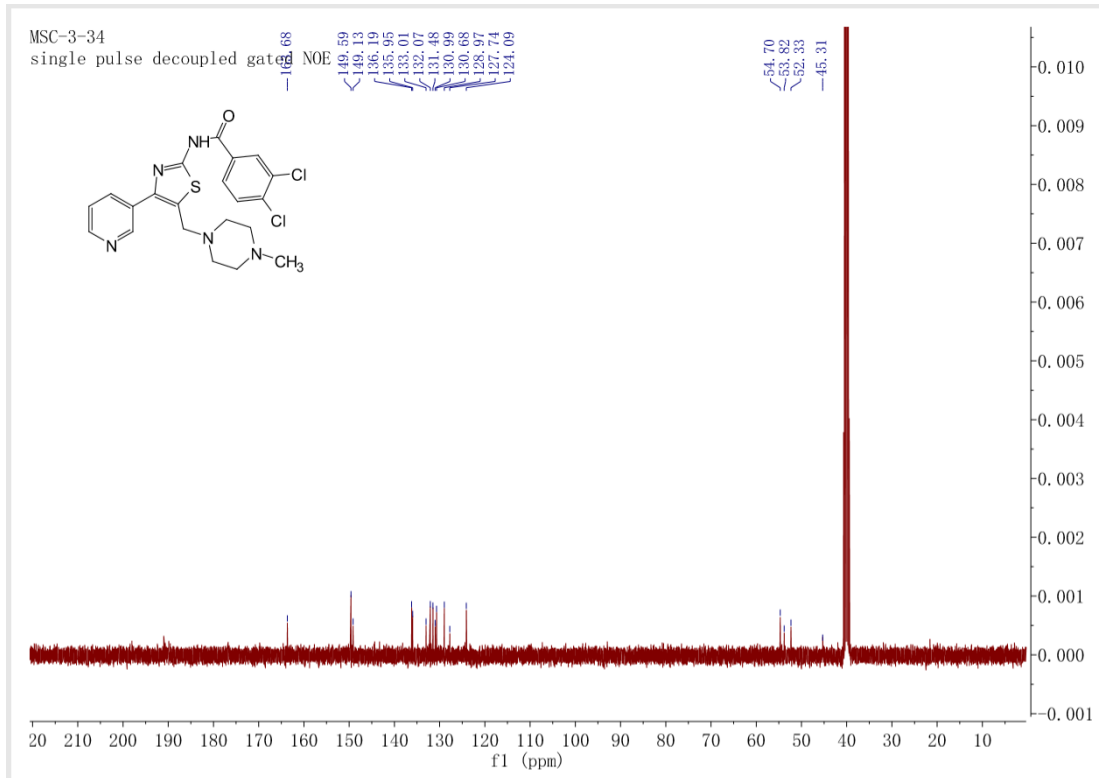
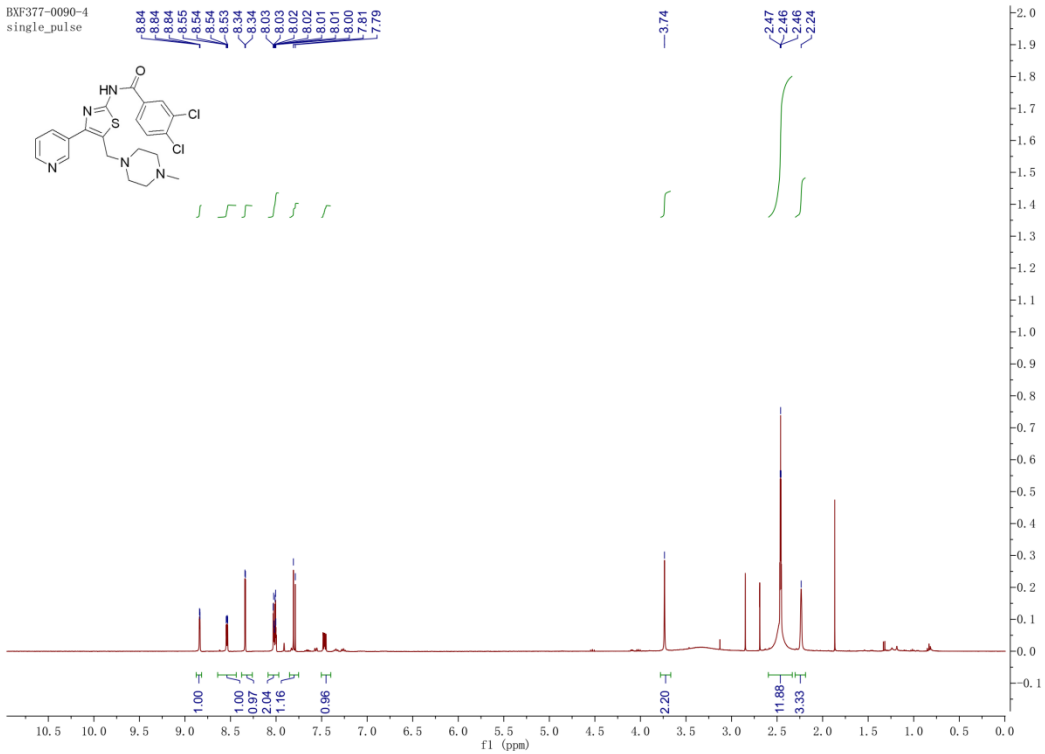


Figure S5. ^1H -NMR and ^{13}C -NMR spectrum of 4e.

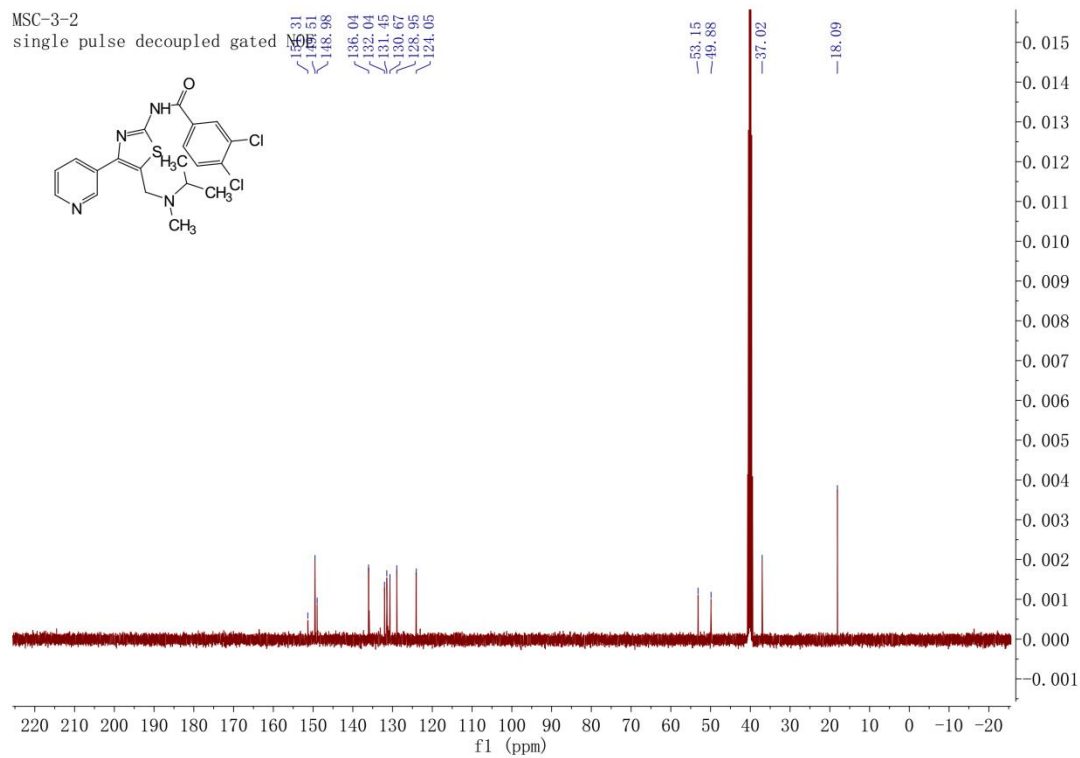
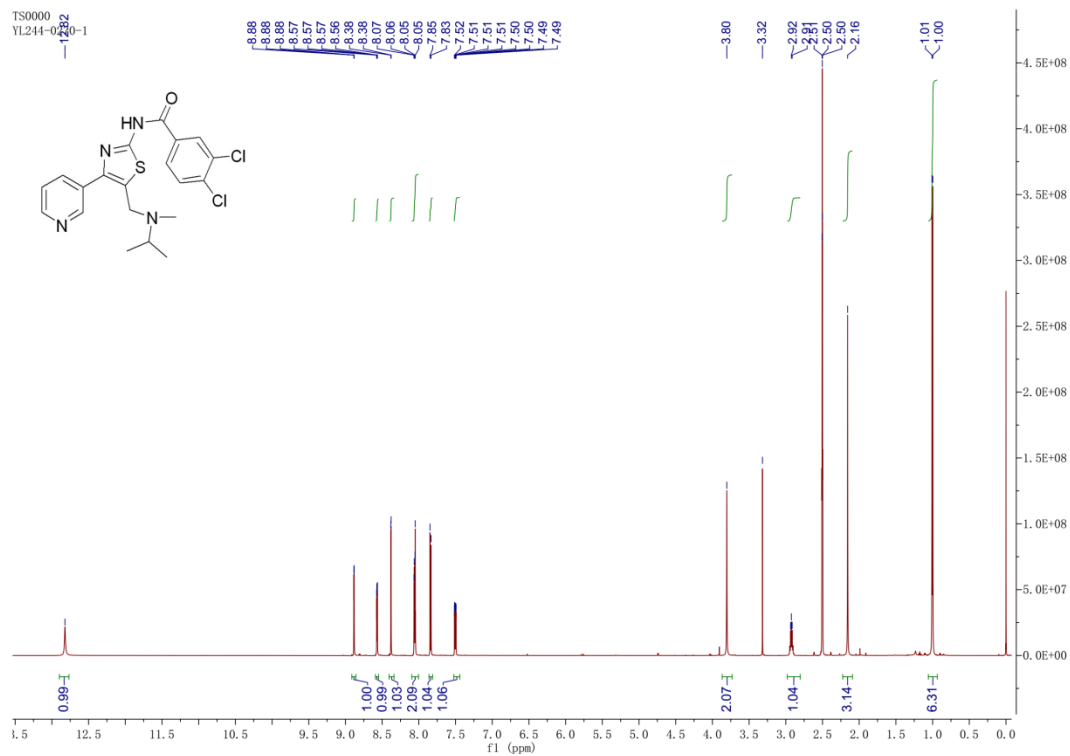


Figure S6. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ spectrum of 4f.

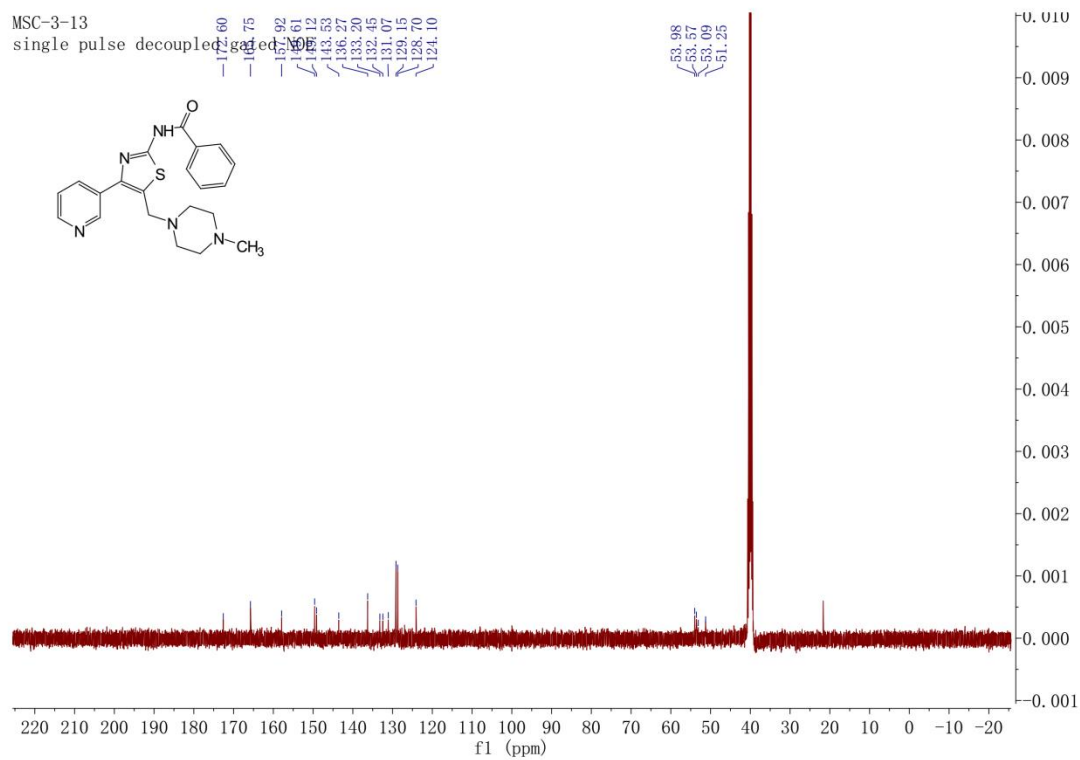
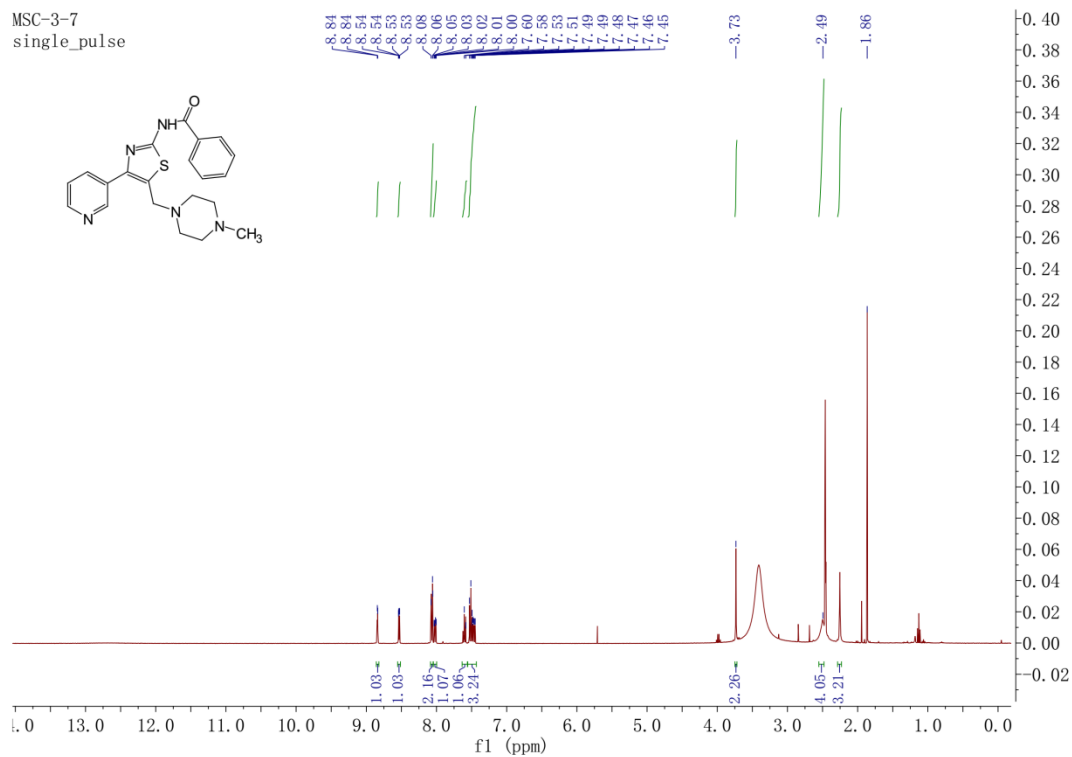


Figure S7. ¹H-NMR and ¹³C-NMR spectrum of 4g.

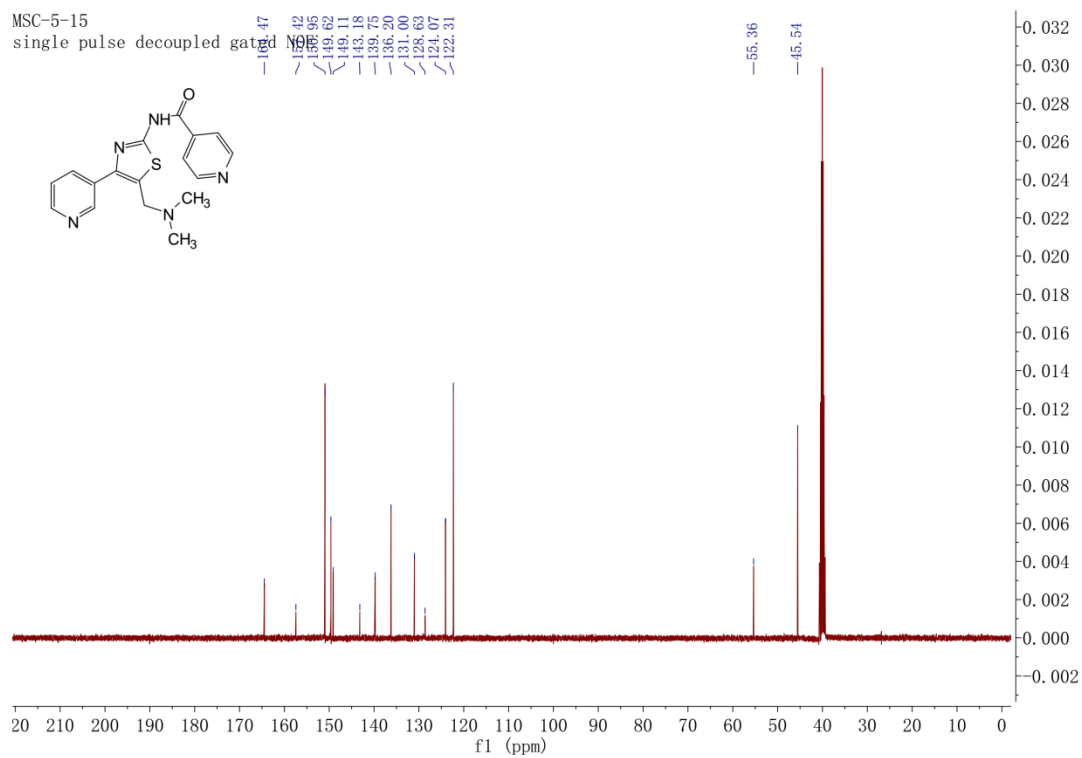
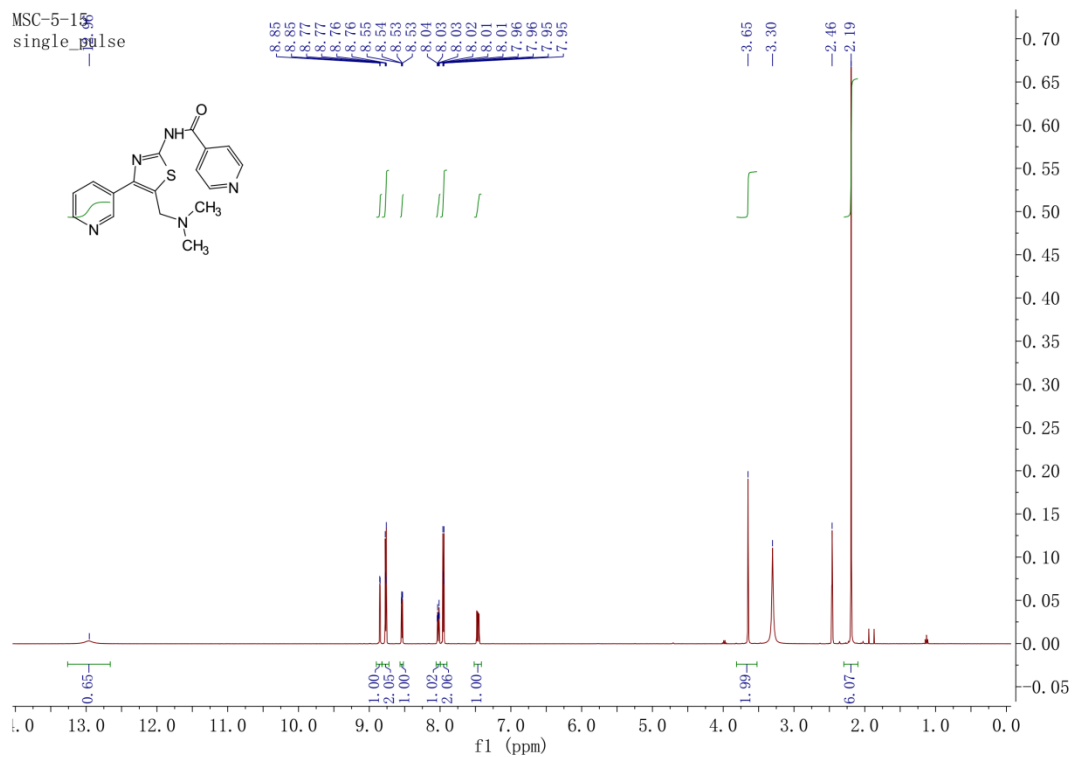


Figure S8. ^1H -NMR and ^{13}C -NMR spectrum of **4h**.

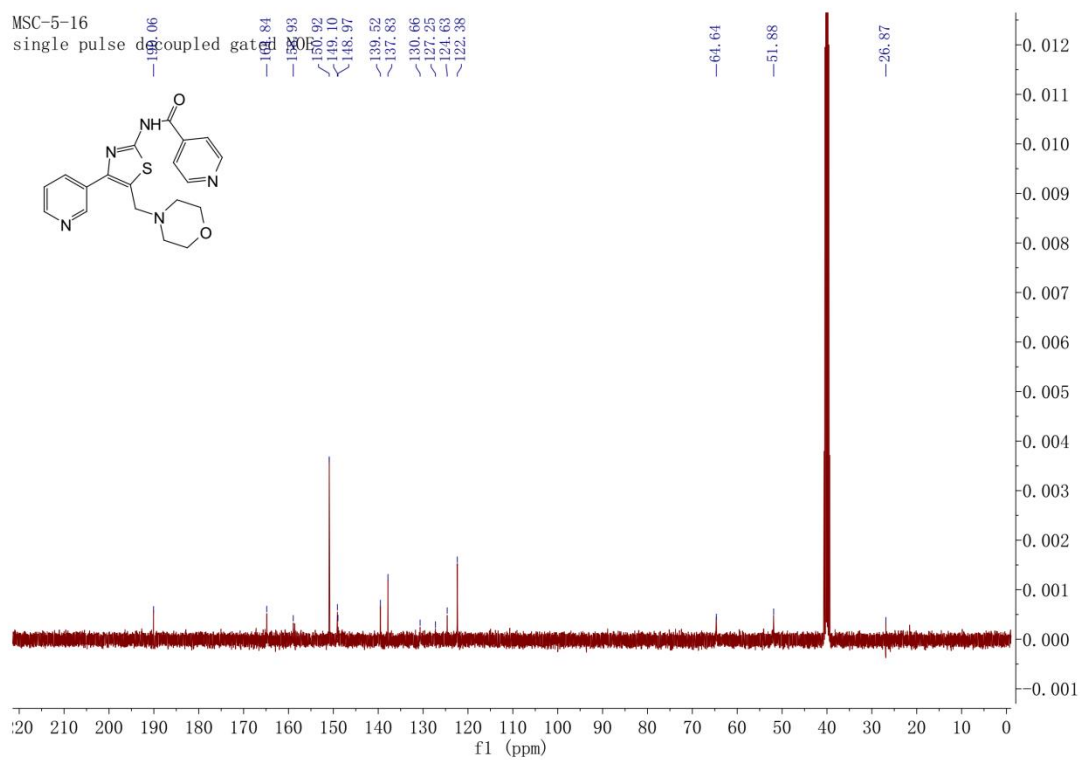
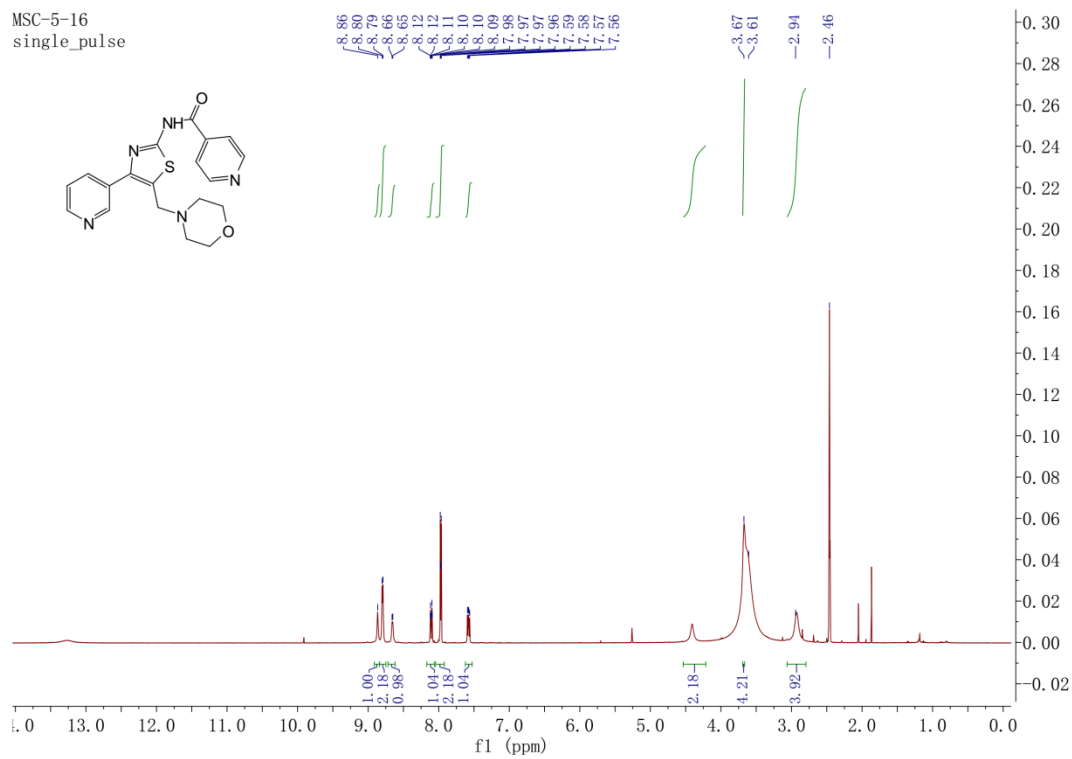


Figure S9. ^1H -NMR and ^{13}C -NMR spectrum of **4i**.

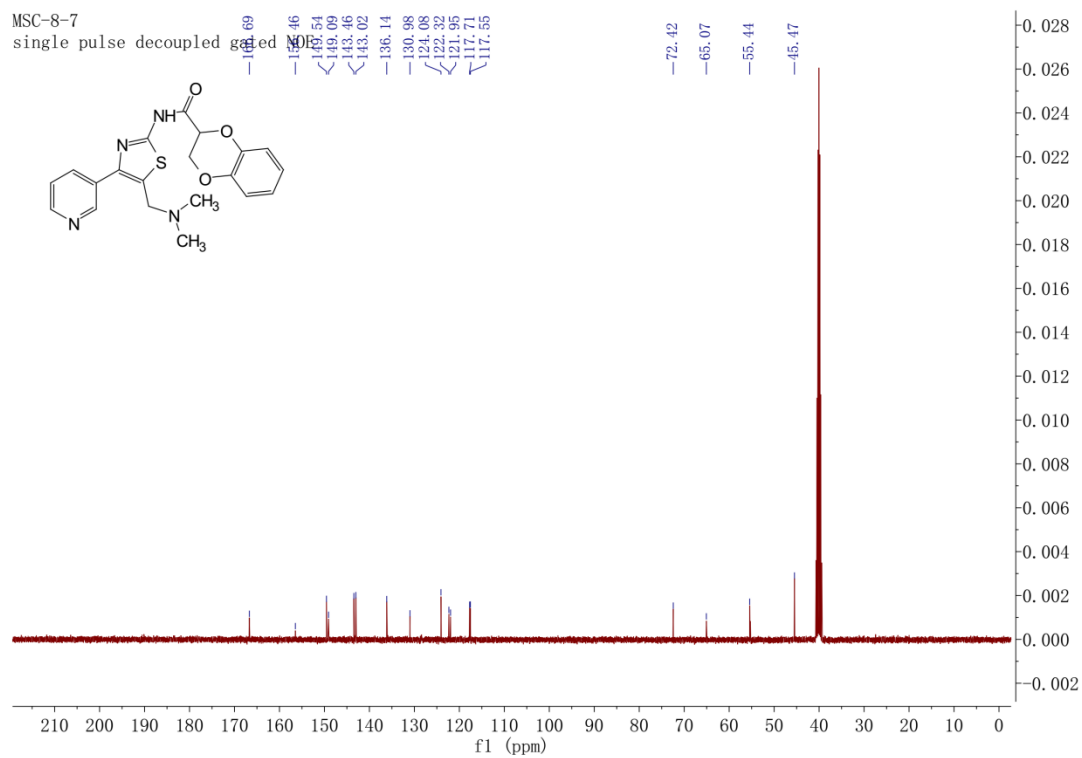
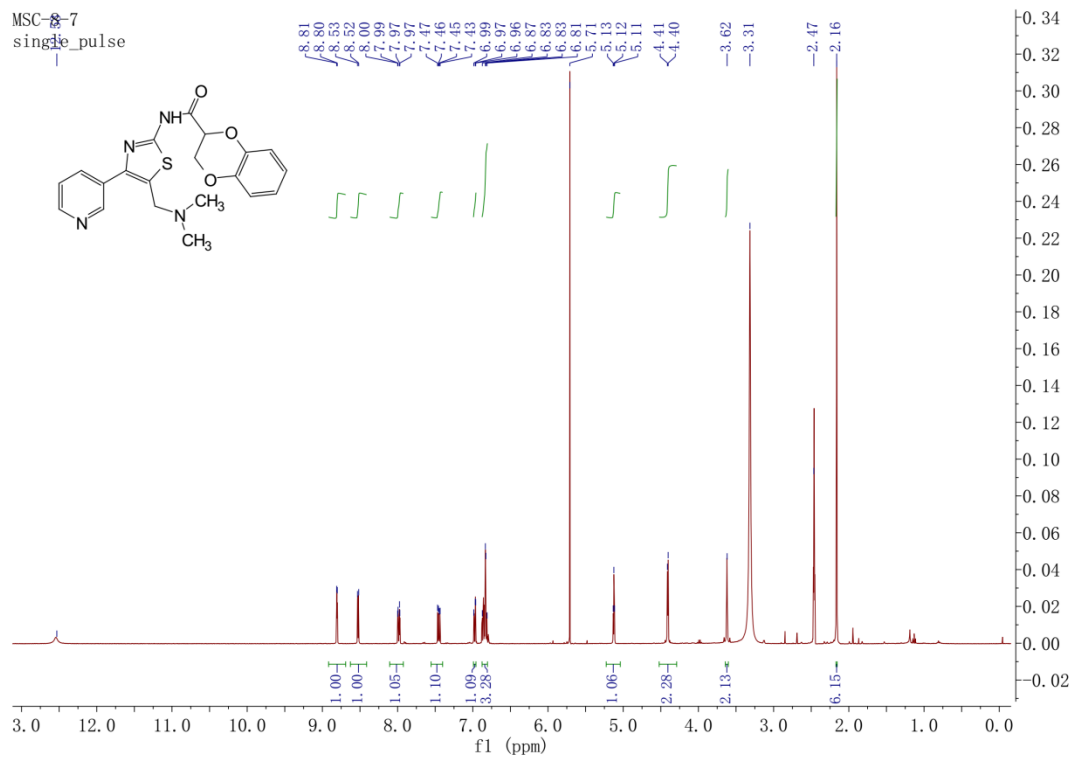


Figure S10. ^1H -NMR and ^{13}C -NMR spectrum of **4j**.

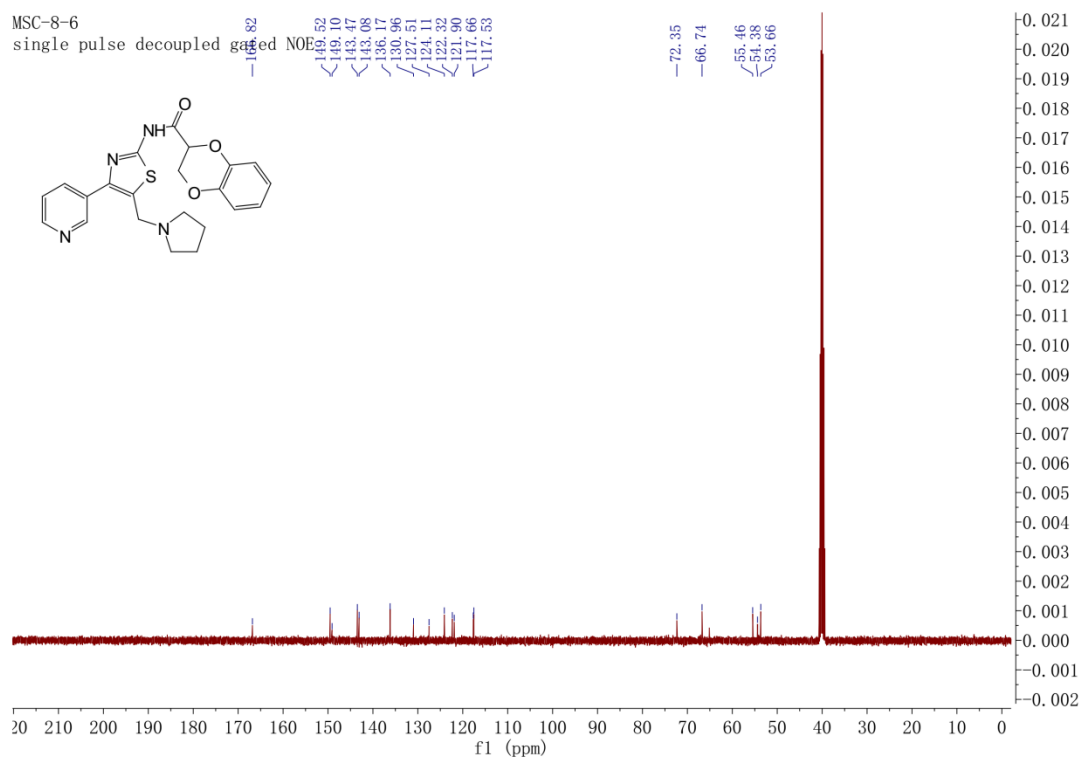
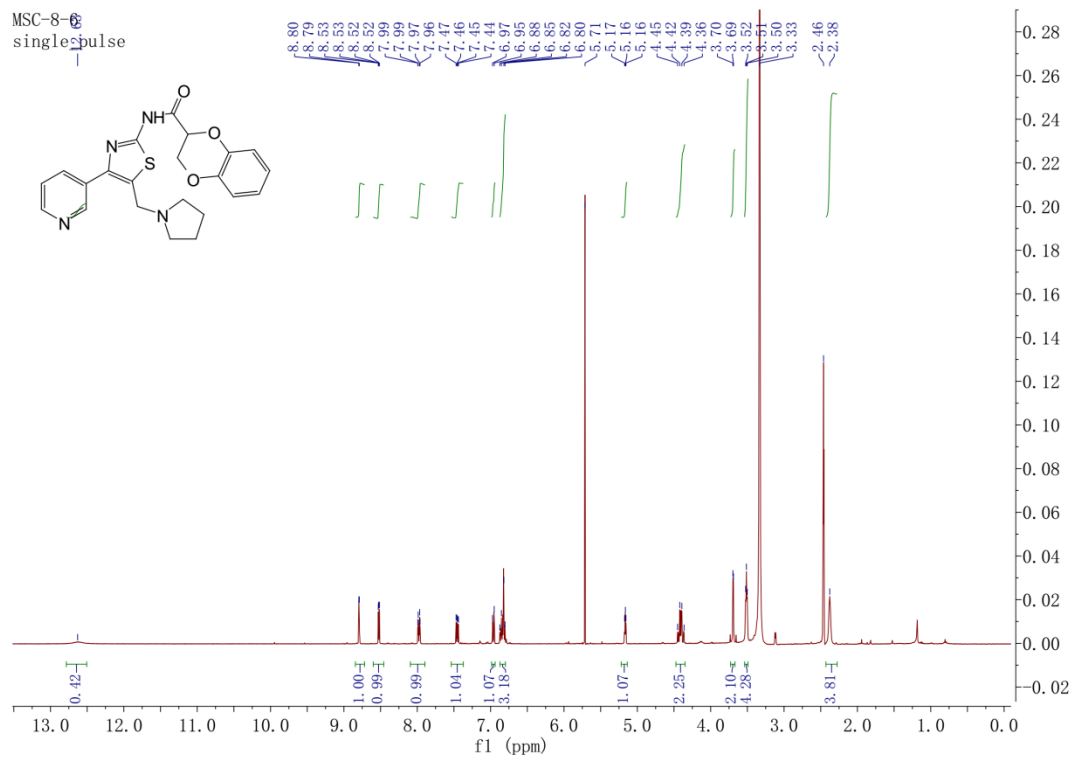


Figure S11. ^1H -NMR and ^{13}C -NMR spectrum of **4k**.

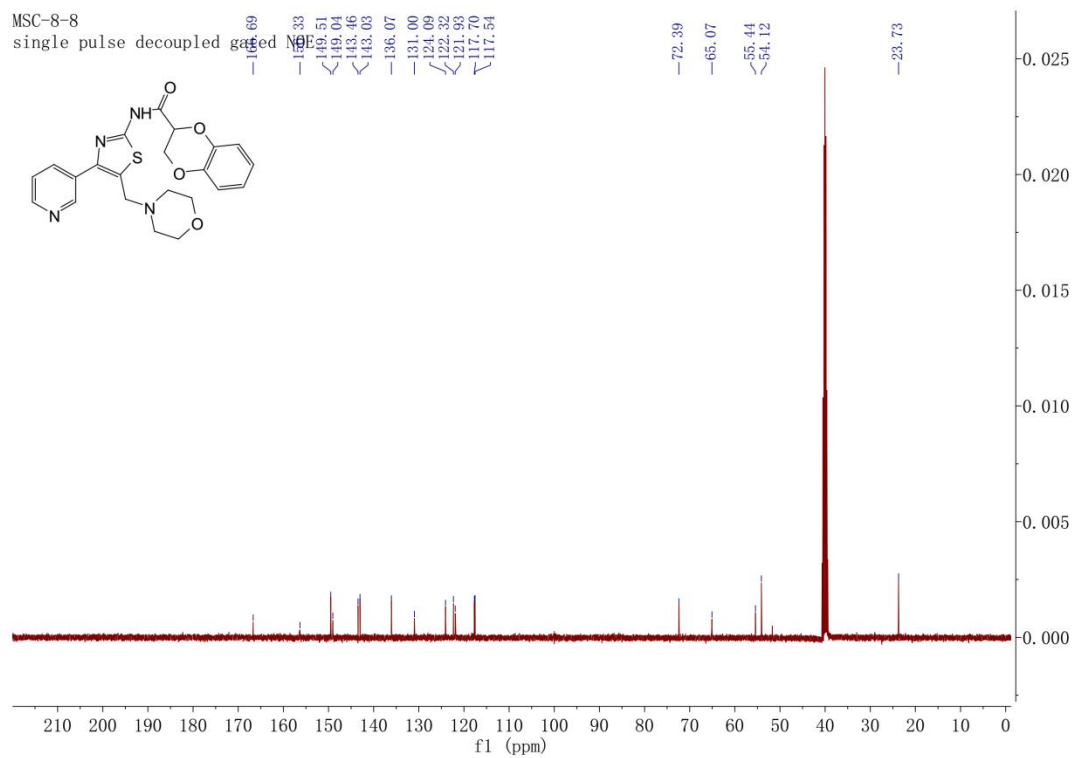
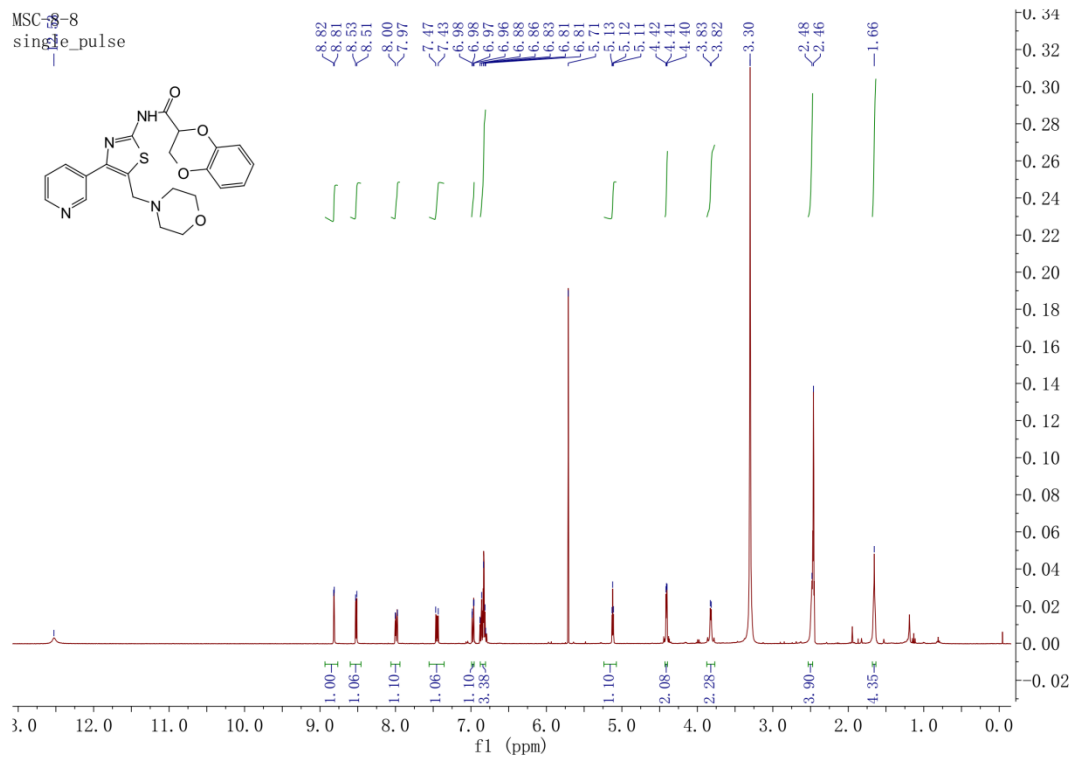
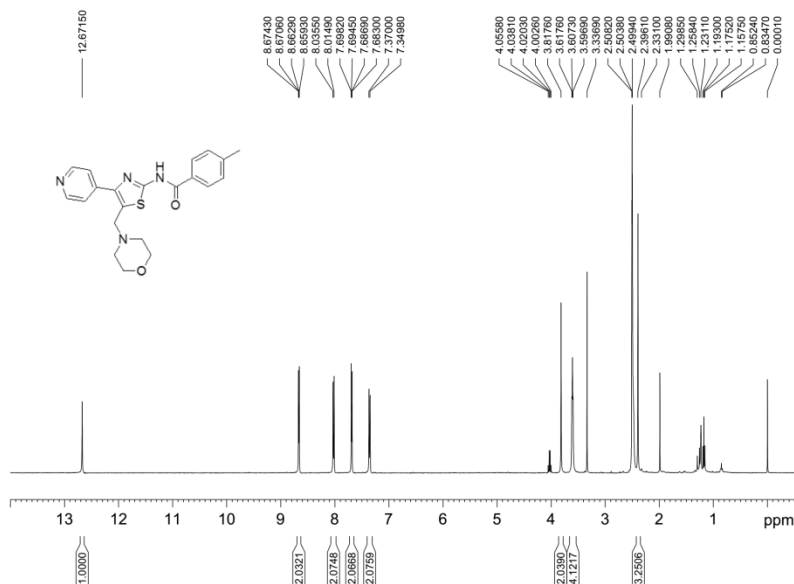


Figure S12. ^1H -NMR and ^{13}C -NMR spectrum of **41**.

BXF377-0015-1-1H



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 EXPNO: 9269
 PROCNO: 1
 F2 - Acquisition Parameters
 Date_: 20180316
 Time: 10.45
 INSTRUM: spect
 PROBHD: 5 mm DUL 13C-1
 PULPROG: zg30
 TD: 65536
 SOLVENT: DMSO
 NS: 16
 DS: 0
 SWH: 11990.407 Hz
 FIDRES: 0.182959 Hz
 AQ: 2.7329011 sec
 RG: 64
 DE: 41.700 usec
 DW: 6.00 usec
 TE: 294.3 K
 D1: 1.00000000 sec
 MCREST: 0.00000000 sec
 MCWRK: 0.01500000 sec
 ===== CHANNEL f1 =====
 NUC1: ¹H
 P1: 15.50 usec
 PL1: -4.00 dB
 SFO1: 400.1315084 MHz
 F2 - Processing parameters
 SI: 32768
 SF: 400.1300019 MHz
 WDW: EM
 SSB: 0
 LB: 0.30 Hz
 GB: 0
 PC: 1.00

MSC-3-35
 single pulse decoupled gated NMR

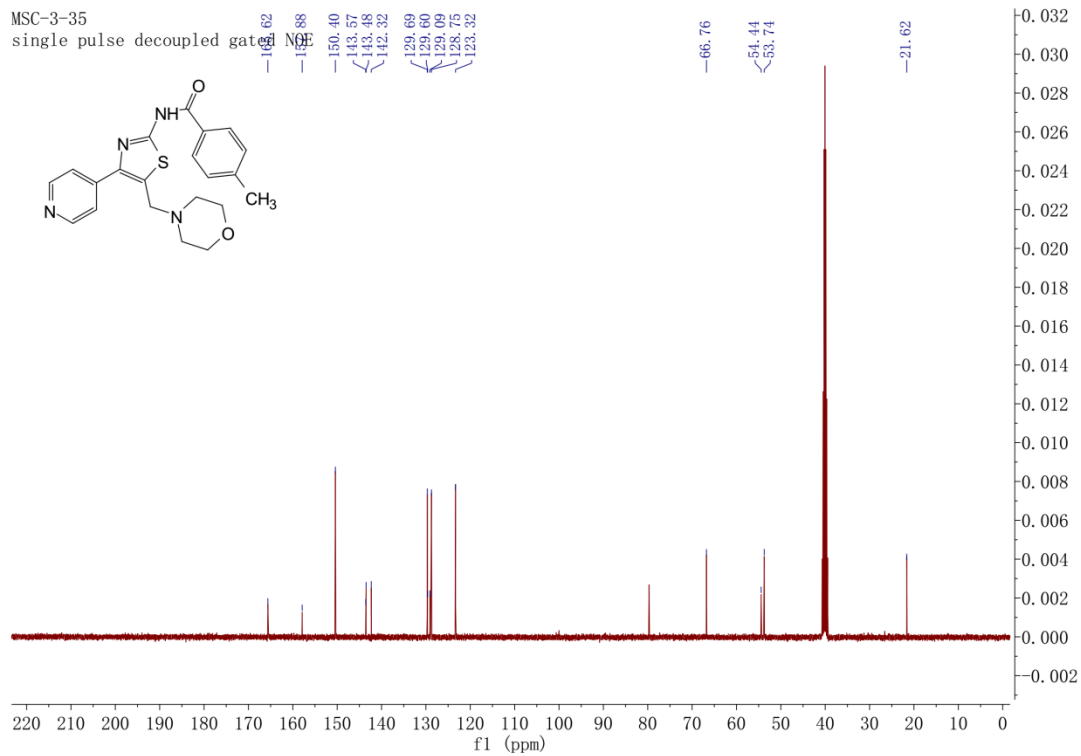
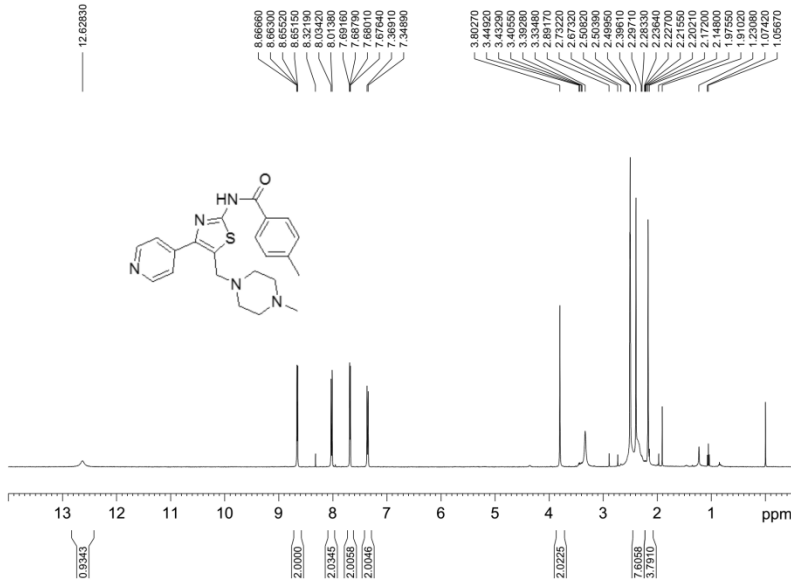


Figure S13. ¹H-NMR and ¹³C-NMR spectrum of 4m.

BXF-3770015-2-1H



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 EXPNO 9258
 PROCNO 1
 F2 - Acquisition Parameters
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 Time 10.21
 INSTRUM spect
 PROBHD 5 mm DUL 13C-1
 PULPROG zg30
 TD 65536
 SOLVENT DMSO
 NS 16
 DS 0
 SWH 11990.407 Hz
 FIDRES 0.182959 Hz
 AQ 2.7329011 sec
 RG 64
 DW 41.700 usec
 DE 6.00 usec
 TE 295.4 K
 D1 1.0000000 sec
 MCREST 0.0000000 sec
 MCWRR 0.01500000 sec
 ===== CHANNEL f1 =====
 NUC1 13C
 P1 15.50 usec
 PL1 -4.00 dB
 SFO1 400.131584 MHz
 F2 - Processing parameters
 SI 32768
 SF 400.1300019 MHz
 WDW EM
 SSB 0
 LB 0.30 Hz
 GB 0
 PC 1.00

MSC-3-36

single pulse decoupled gated NOE

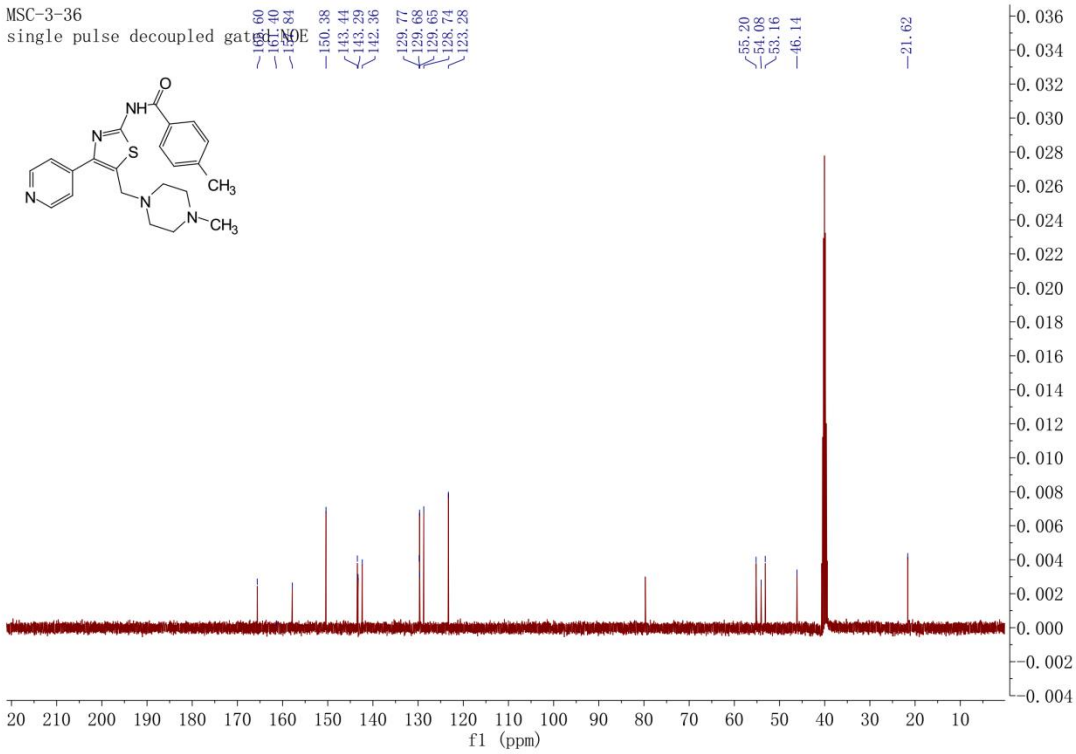


Figure S14. ¹H-NMR and ¹³C-NMR spectrum of 4n.

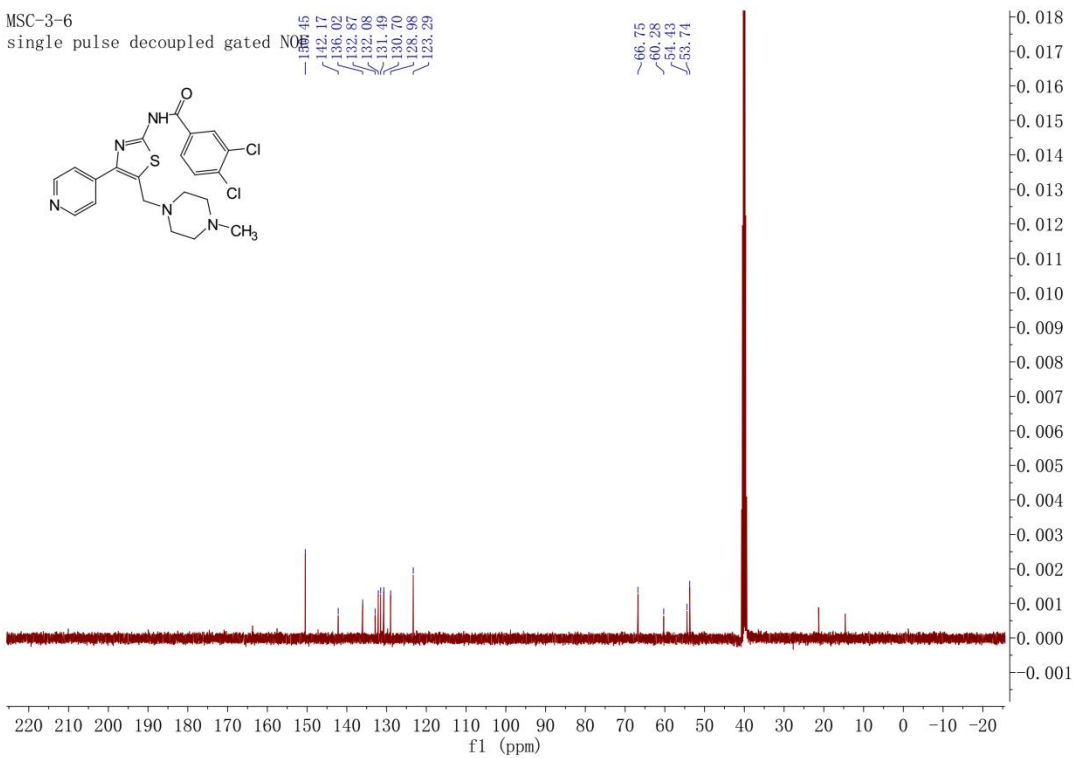
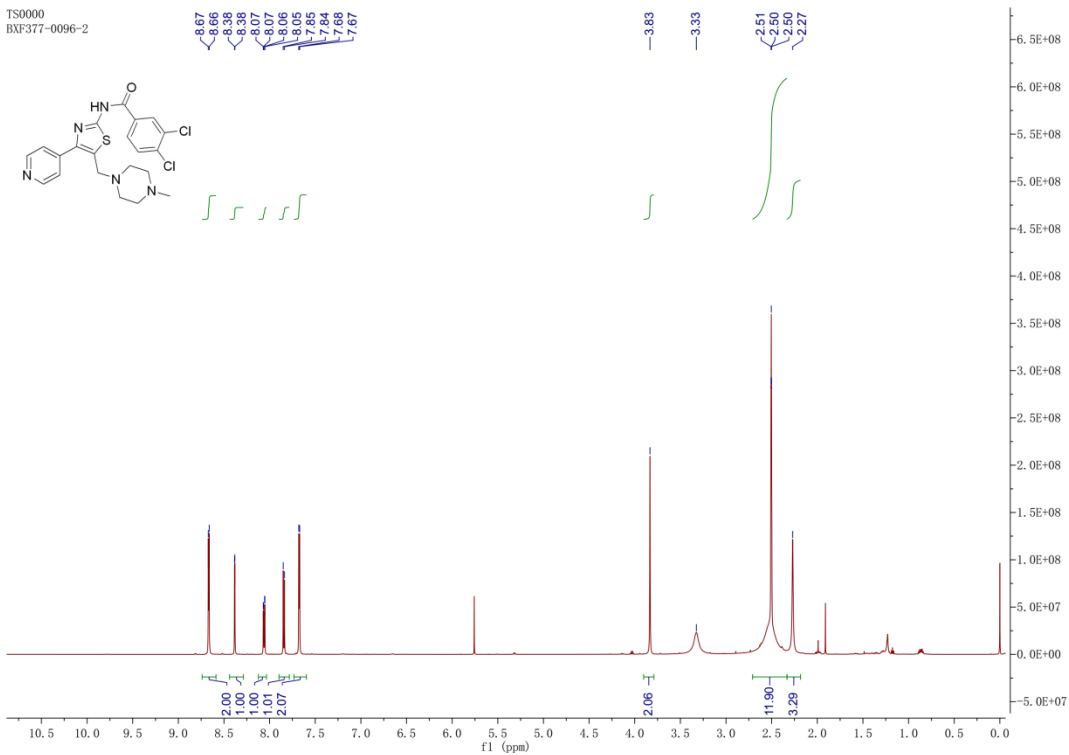


Figure S15. ^1H -NMR and ^{13}C -NMR spectrum of **40**.

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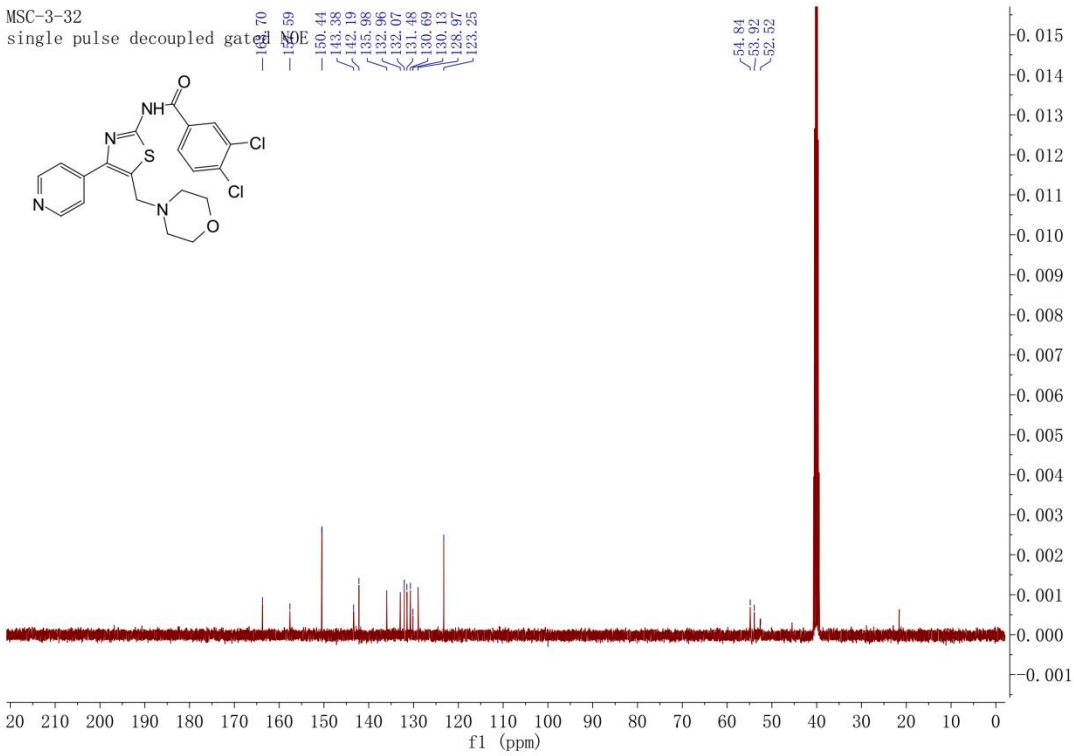
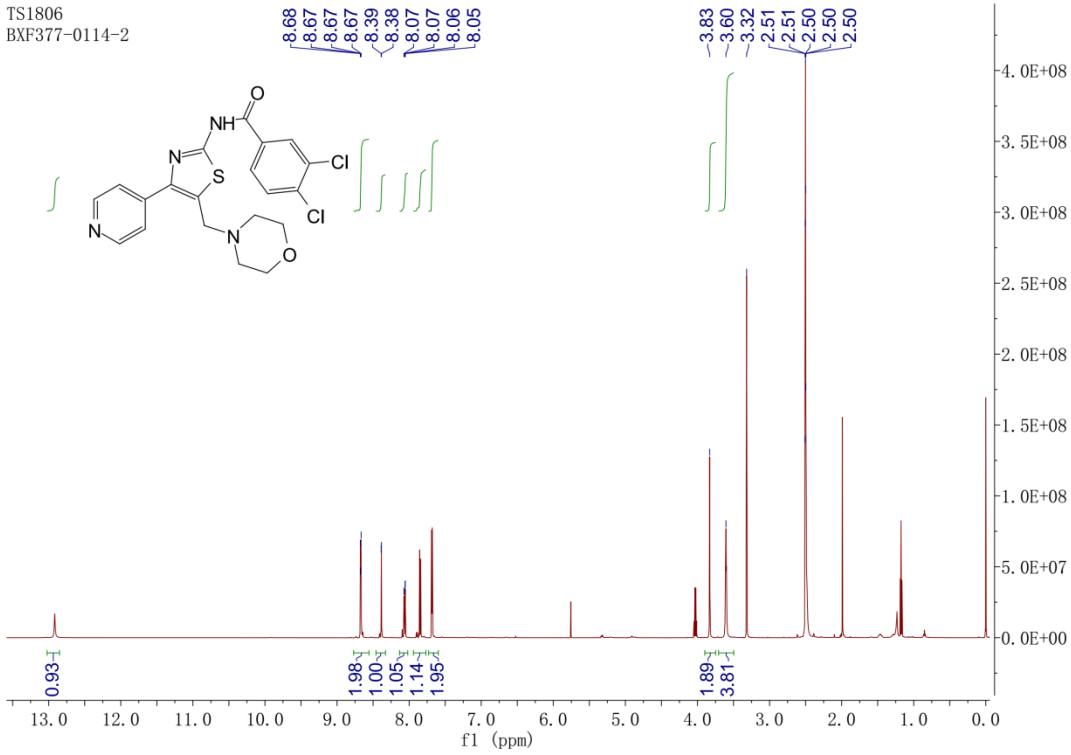


Figure S16. ¹H-NMR and ¹³C-NMR spectrum of **4p**.

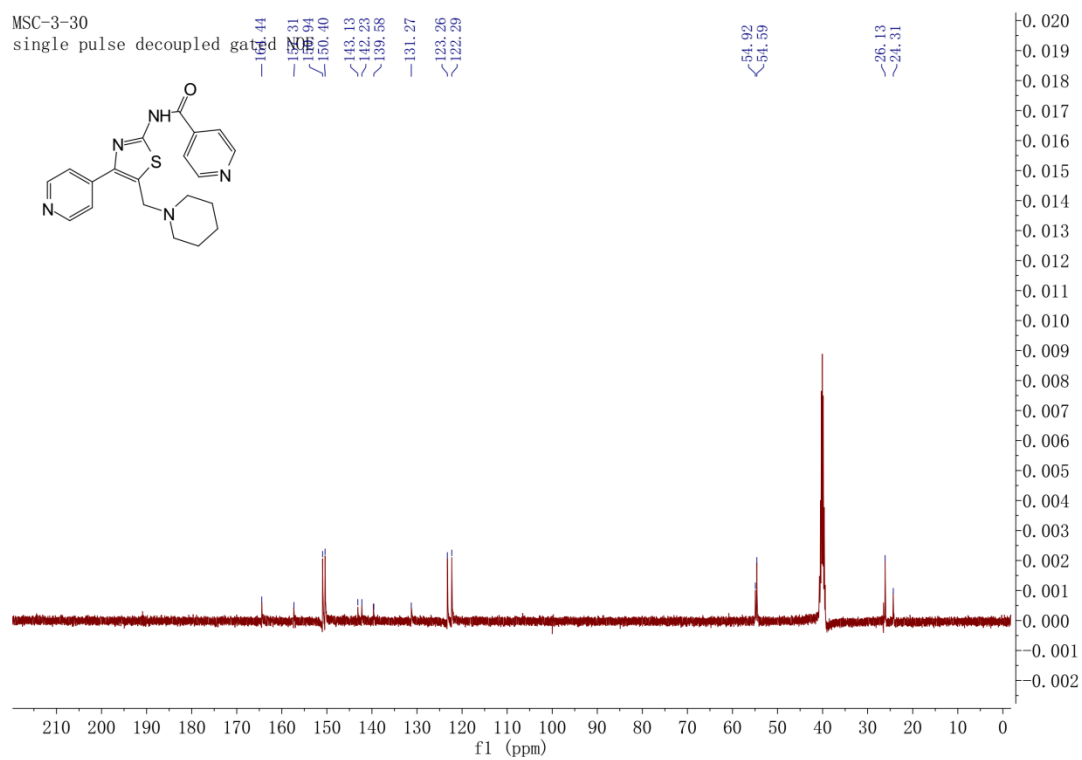
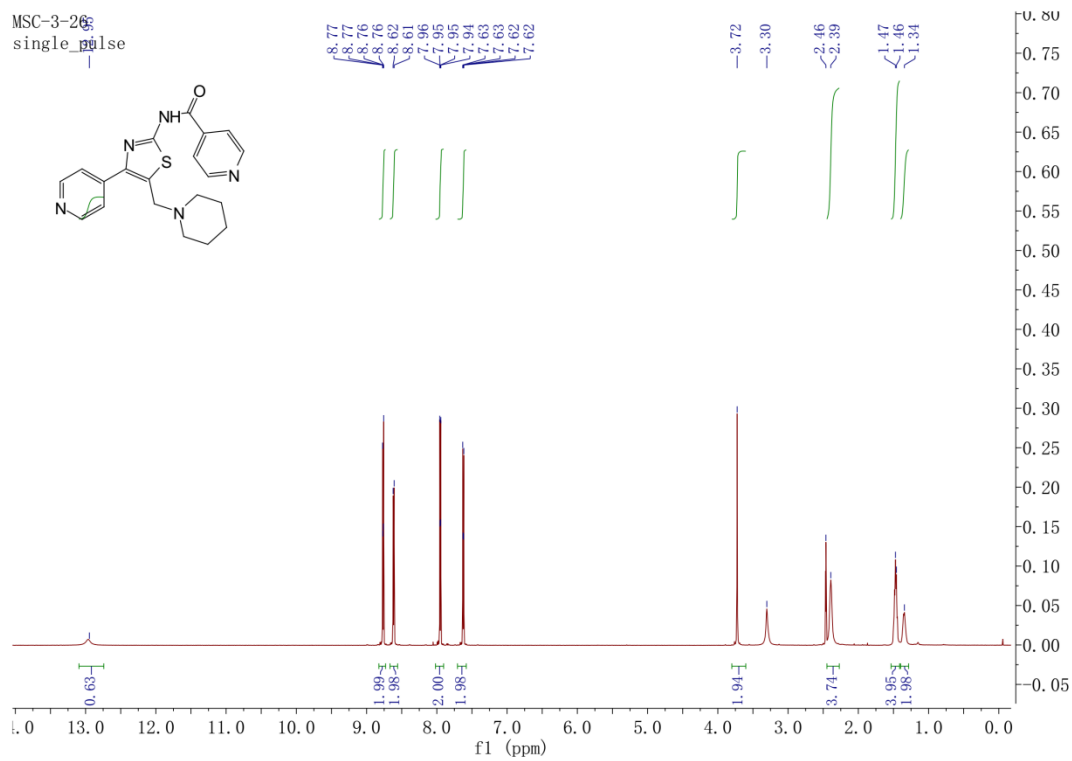


Figure S17. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ spectrum of **4q**.

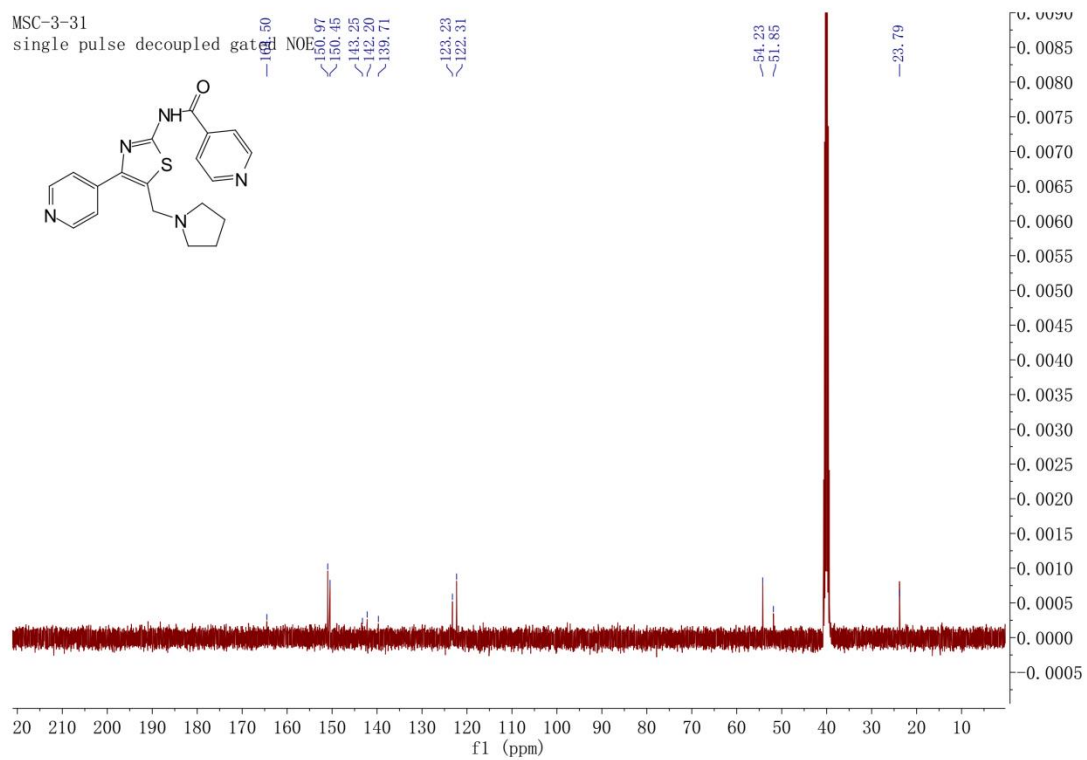
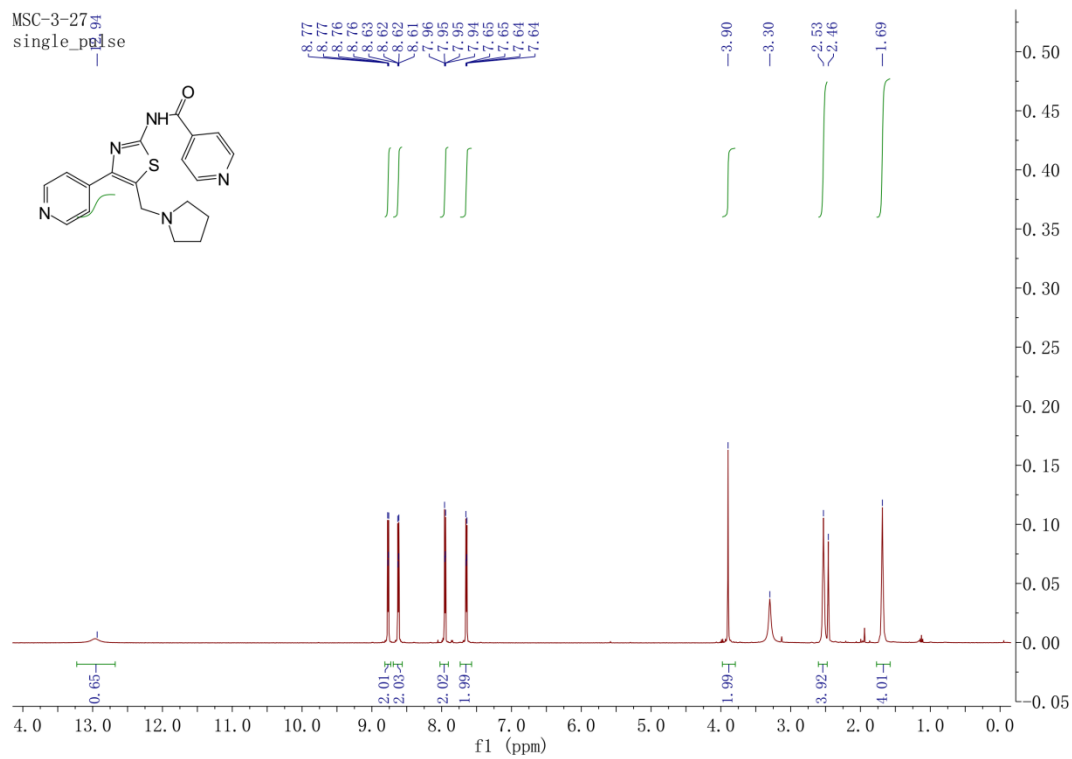


Figure S18. ^1H -NMR and ^{13}C -NMR spectrum of **4r**.

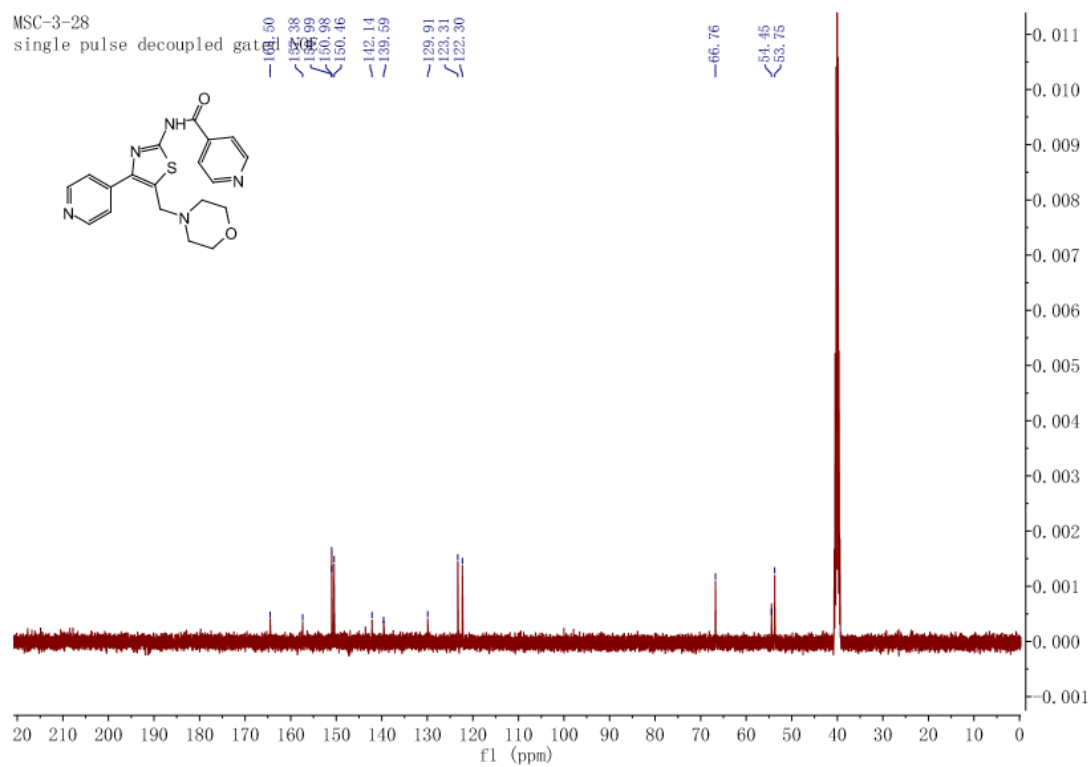
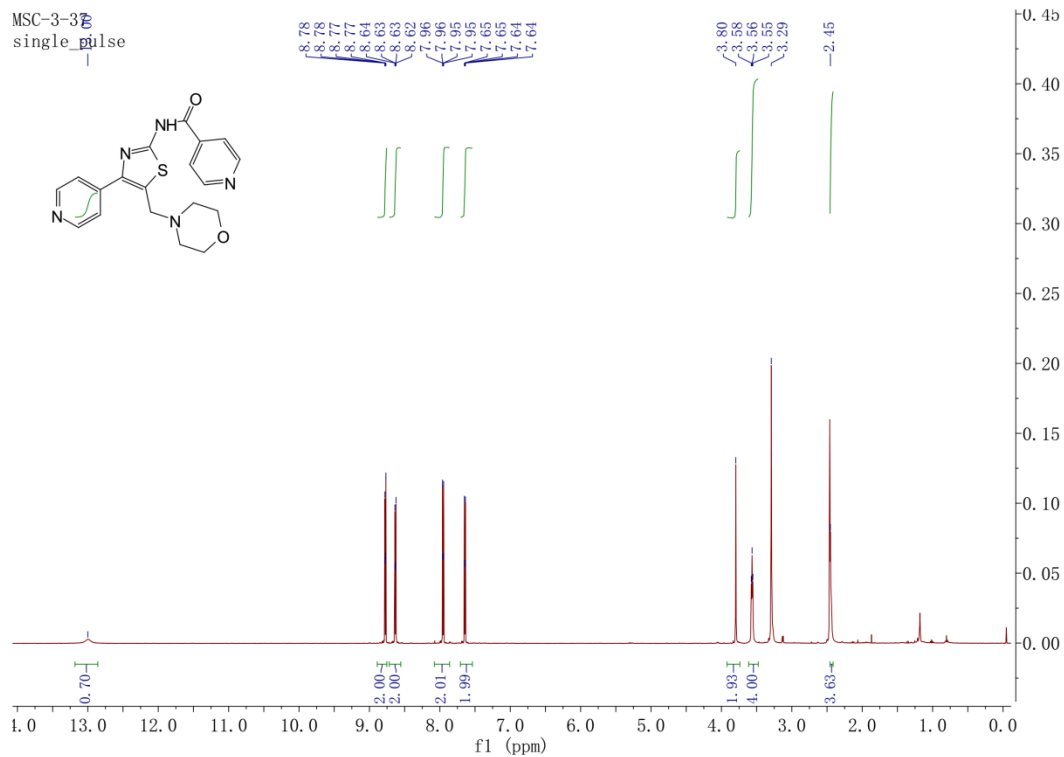


Figure S19. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ spectrum of **4s**.

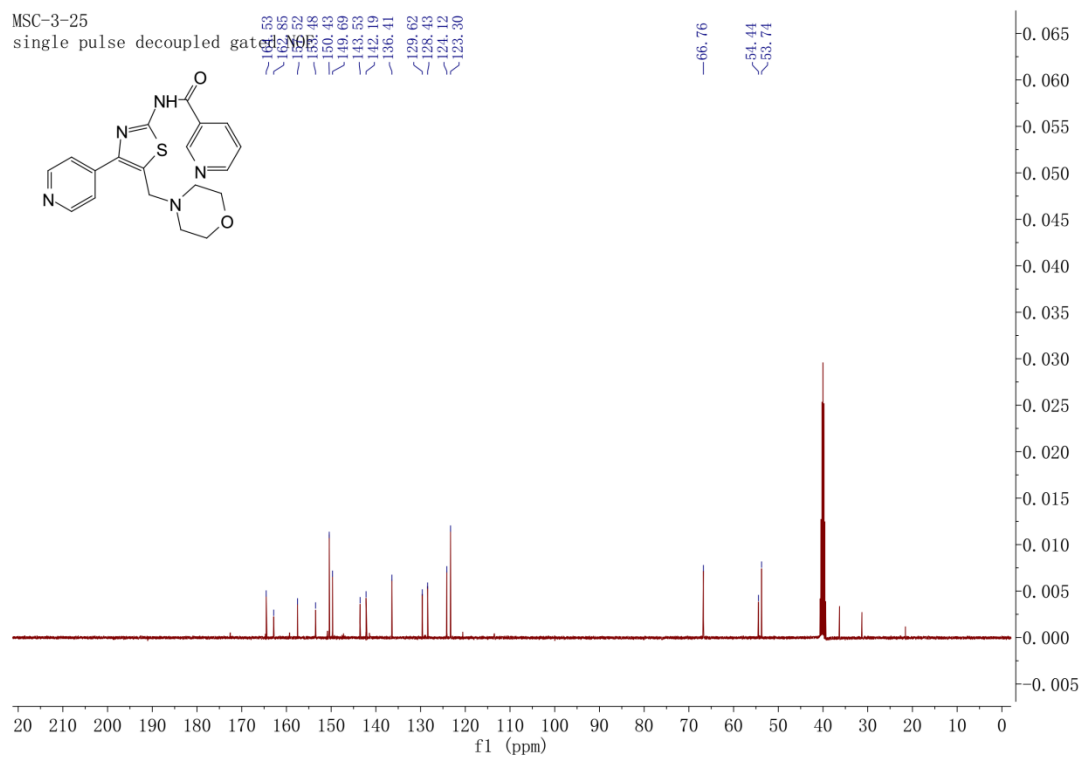
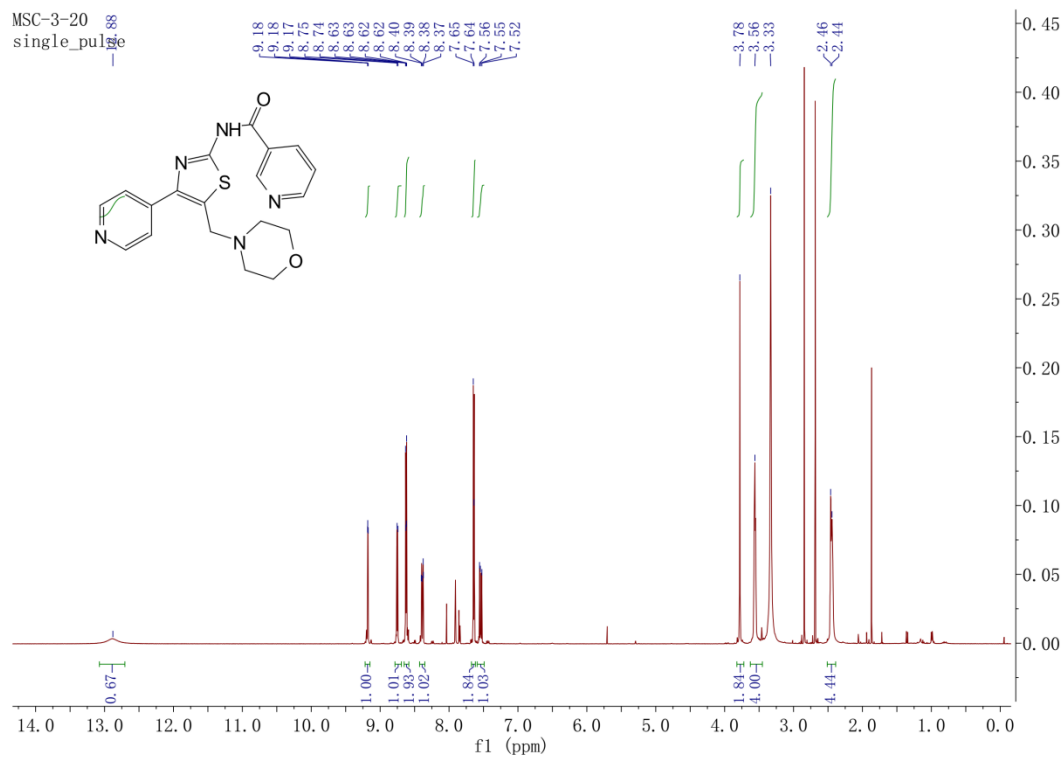


Figure S20. ^1H -NMR and ^{13}C -NMR spectrum of **4t**.

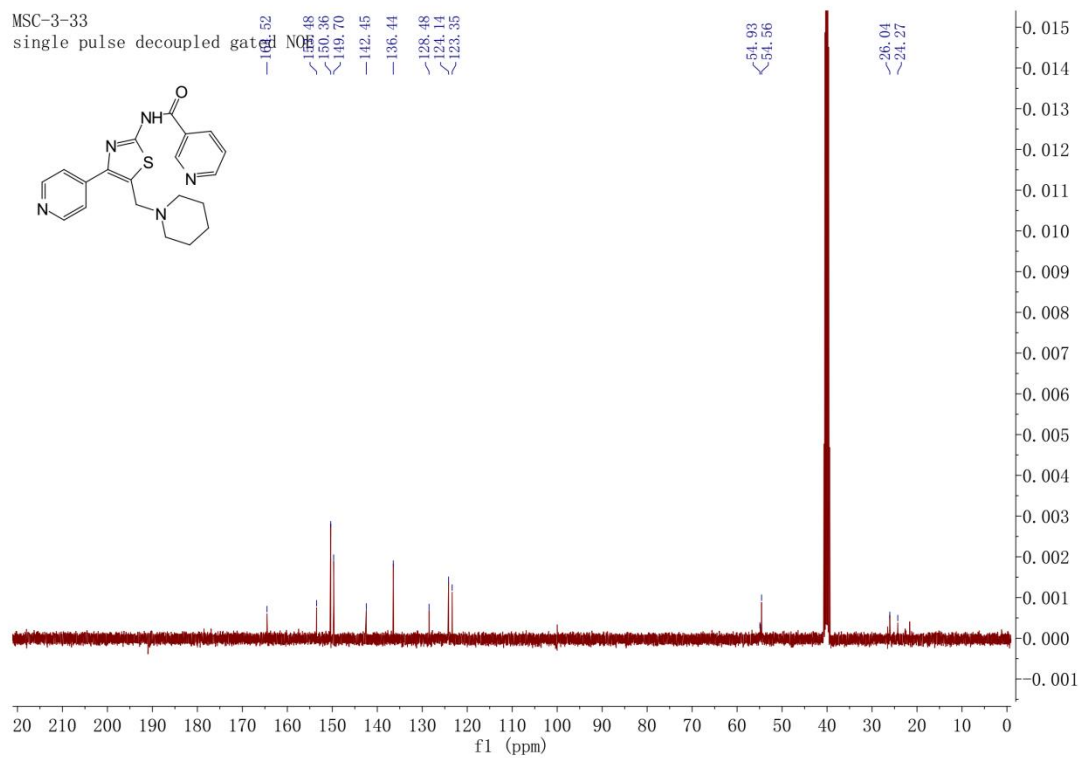
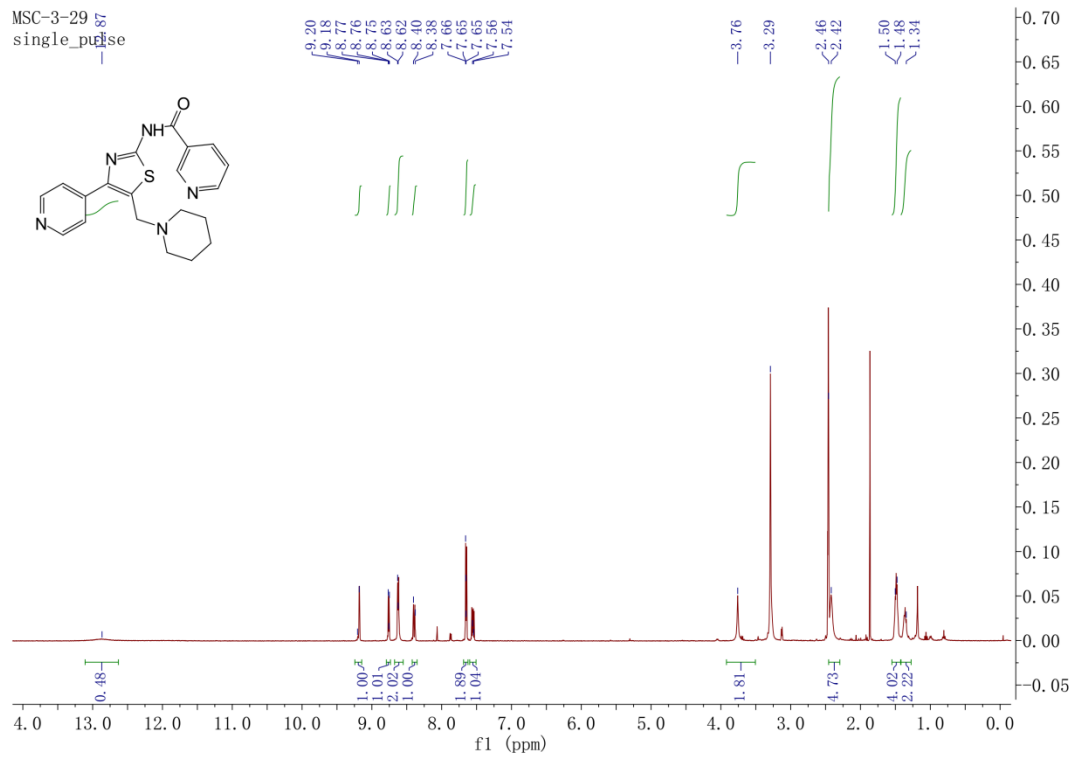


Figure S21. $^1\text{H-NMR}$ and $^{13}\text{C-NMR}$ spectrum of **4u**.

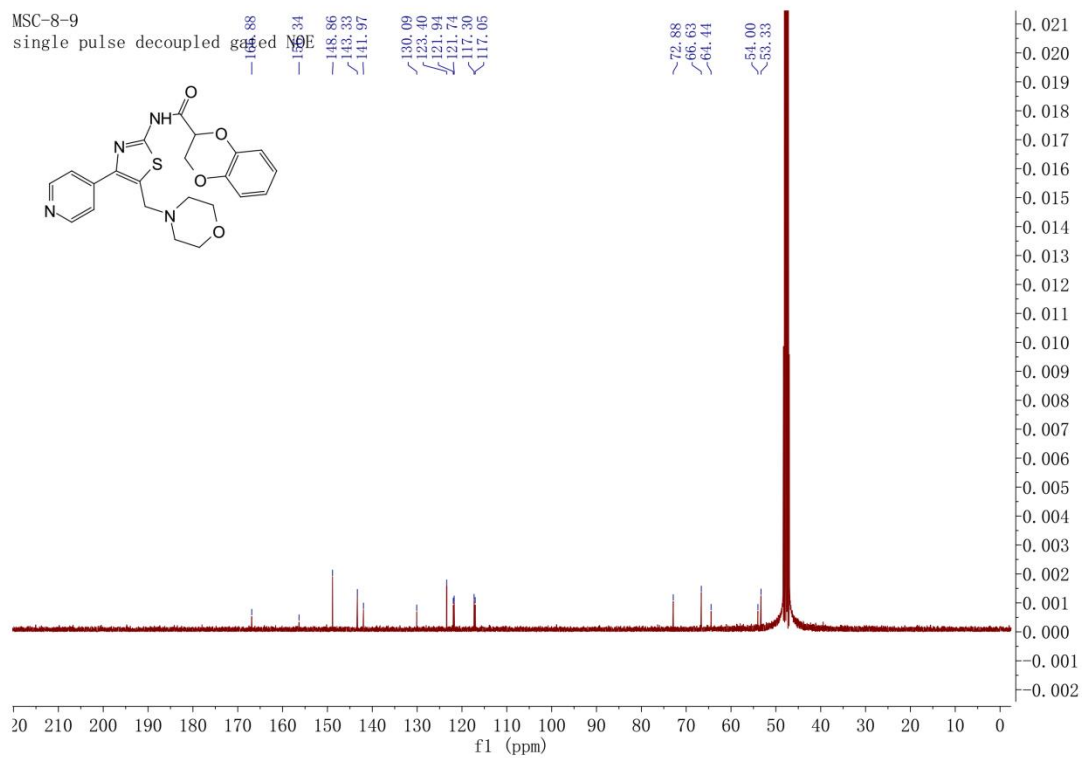
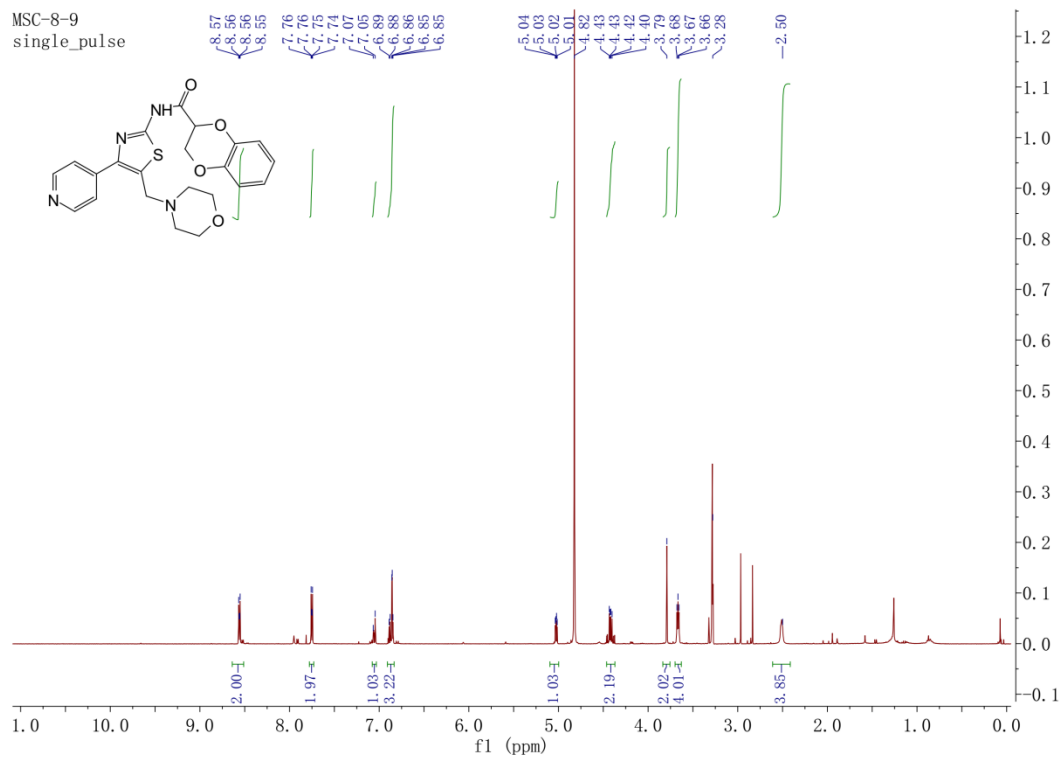


Figure S22. ^1H -NMR and ^{13}C -NMR spectrum of 4v.