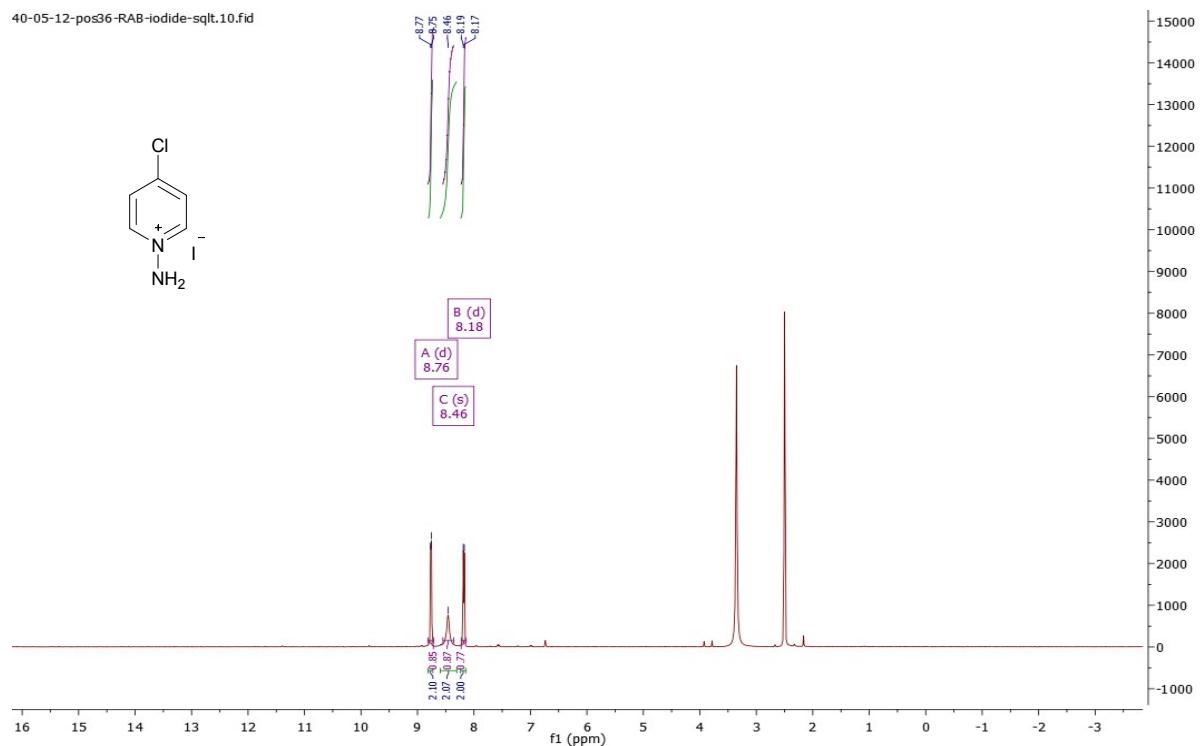


Supporting Information

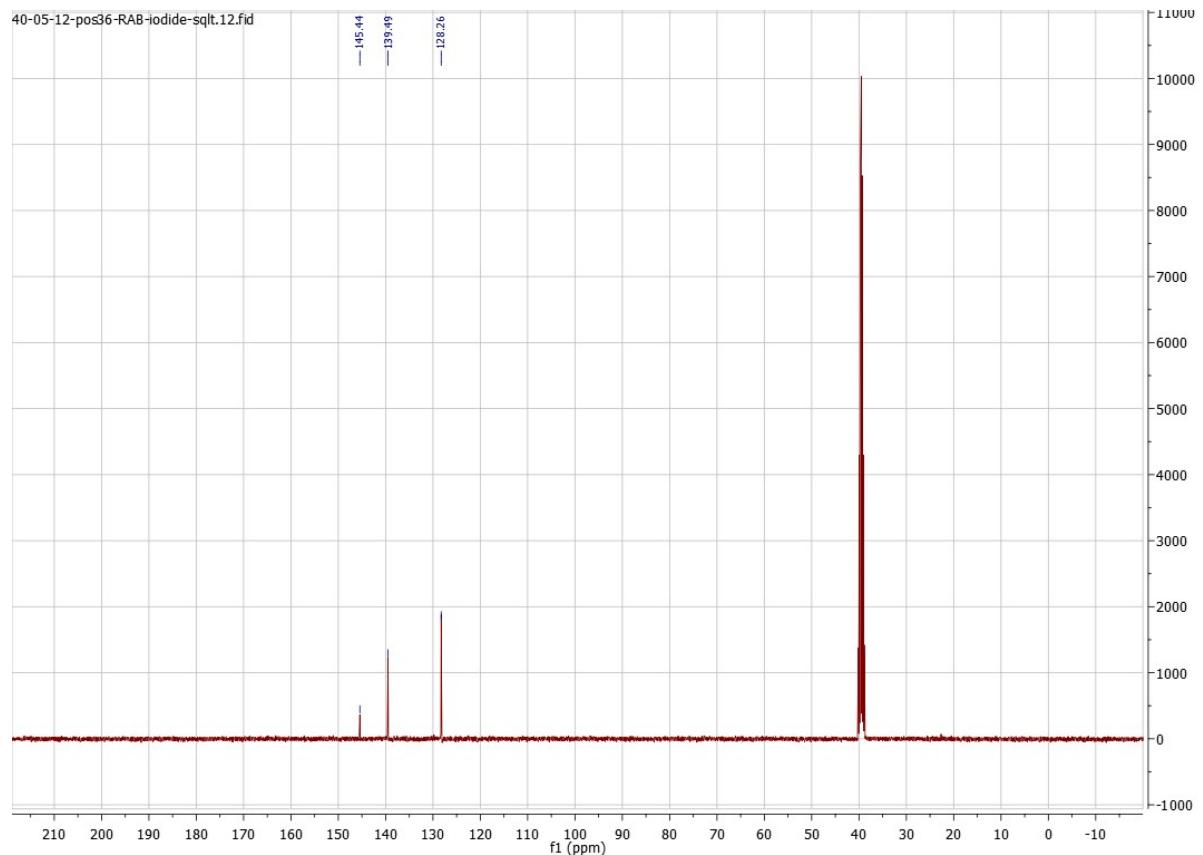
¹H and ¹³C NMR spectra.

1-Amino-4-chloro-pyridinium iodide 1

^1H NMR (250 MHz, DMSO- d_6)

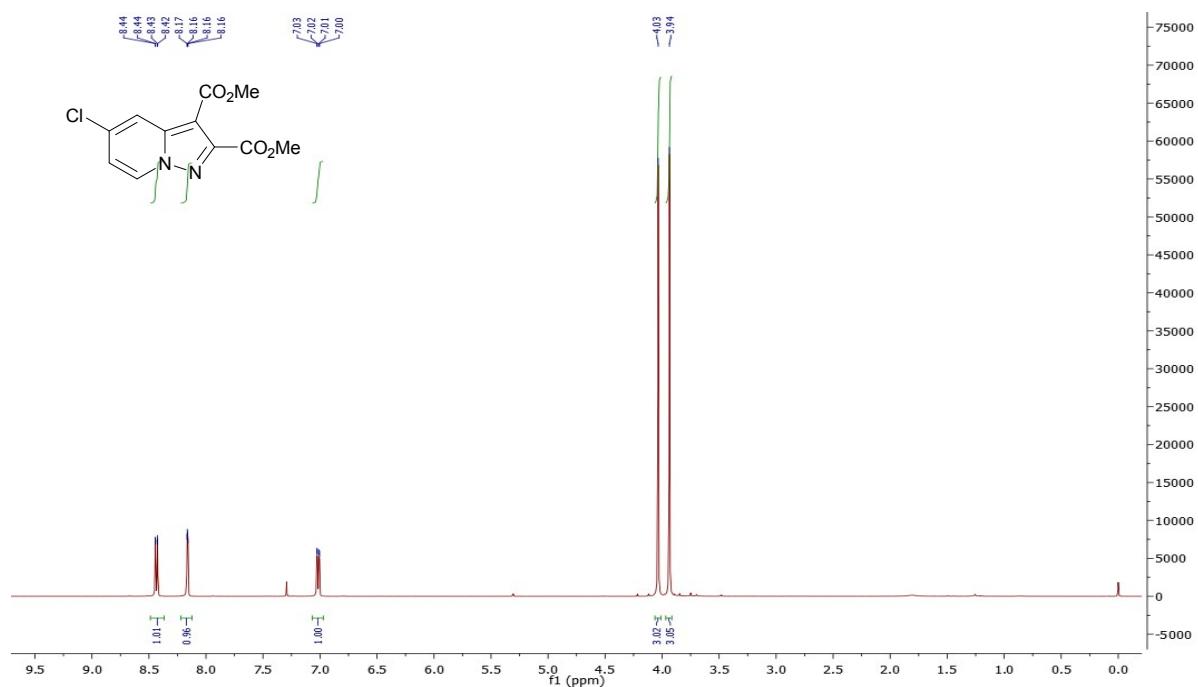


^{13}C NMR (101 MHz, DMSO- d_6)

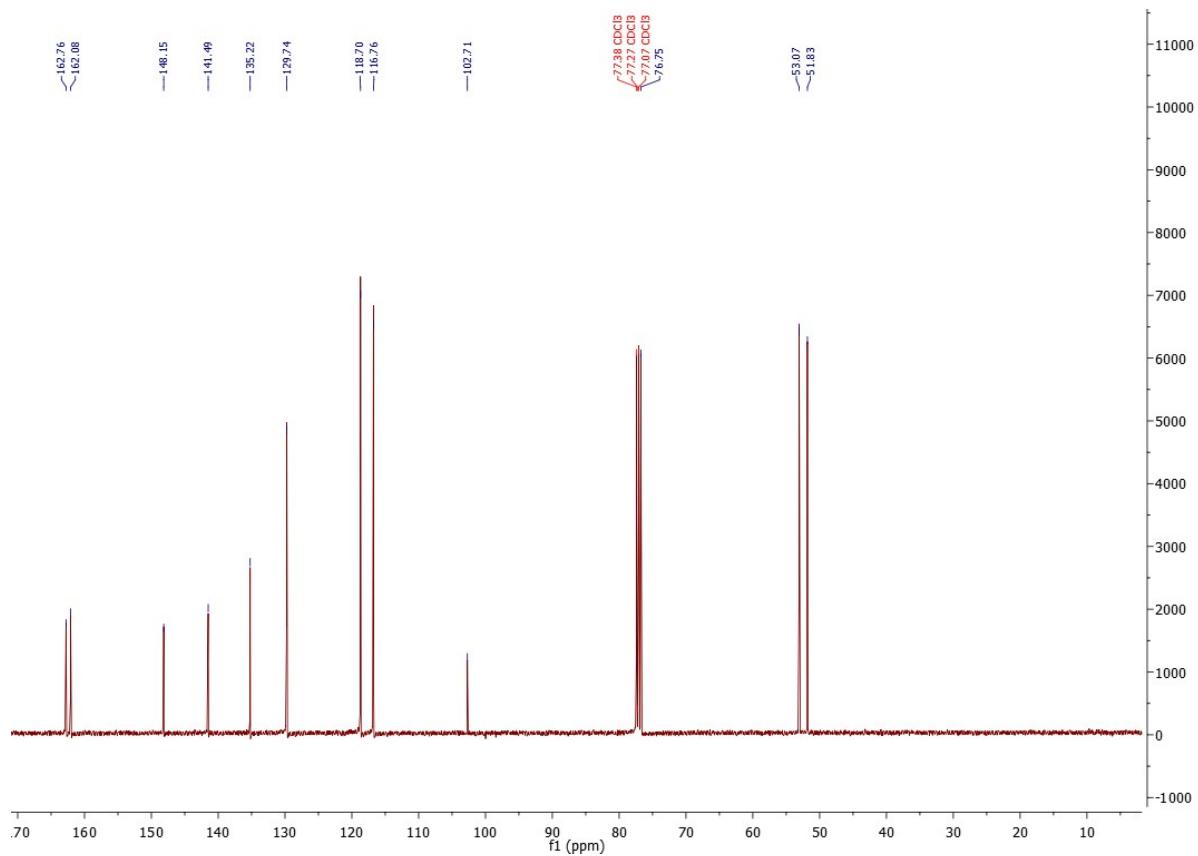


Dimethyl 5-chloropyrazolo[1,5- α]pyridine-2,3-dicarboxylate 2

¹H NMR (400 MHz, CDCl₃)

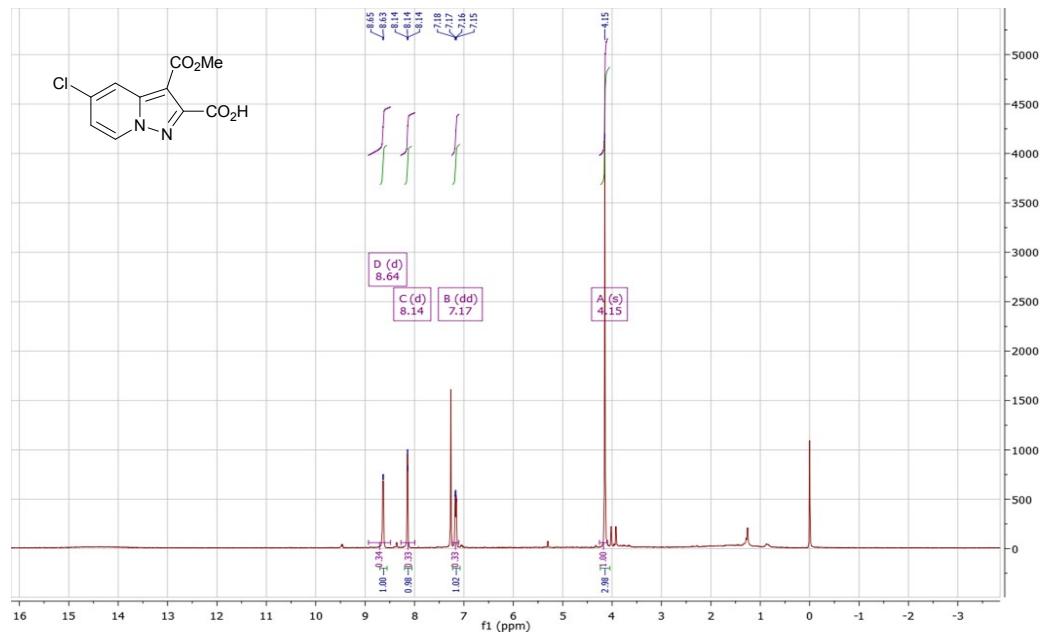


¹³C NMR (101 MHz, CDCl₃).

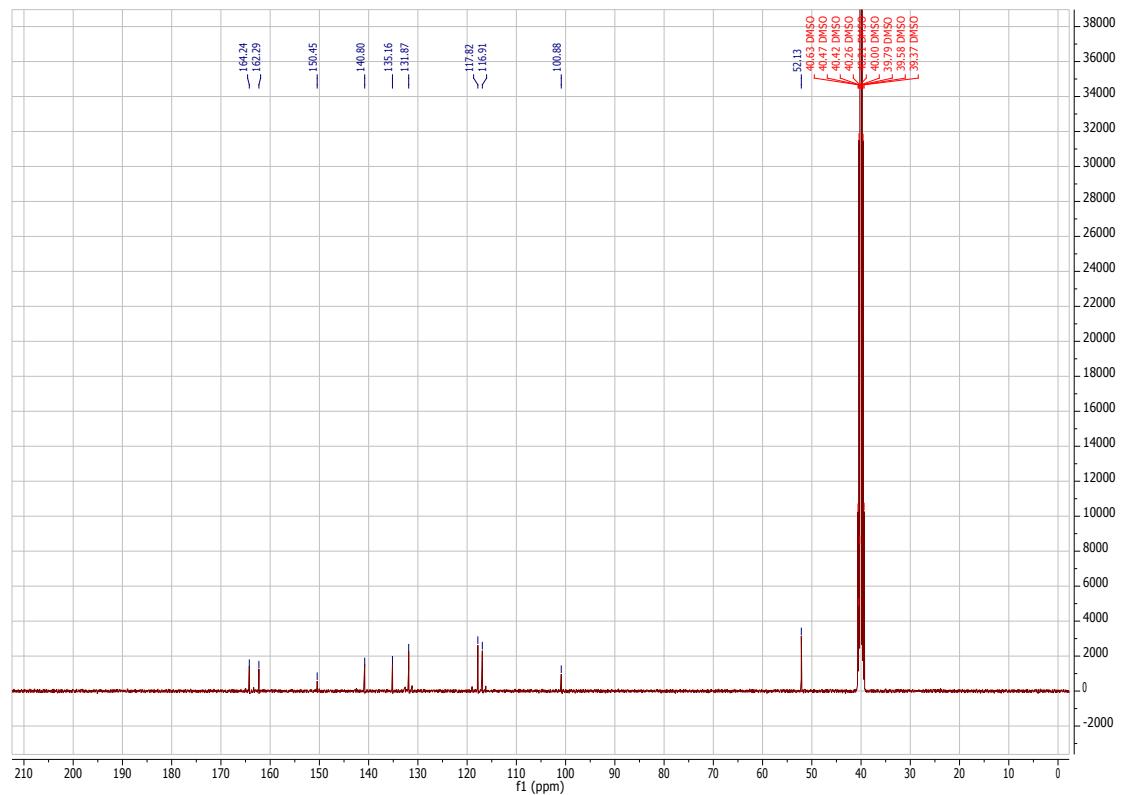


5-Chloro-3-(methoxycarbonyl)pyrazolo[1,5-*a*]pyridine-2-carboxylic acid 3

¹H NMR (400 MHz, CDCl₃)

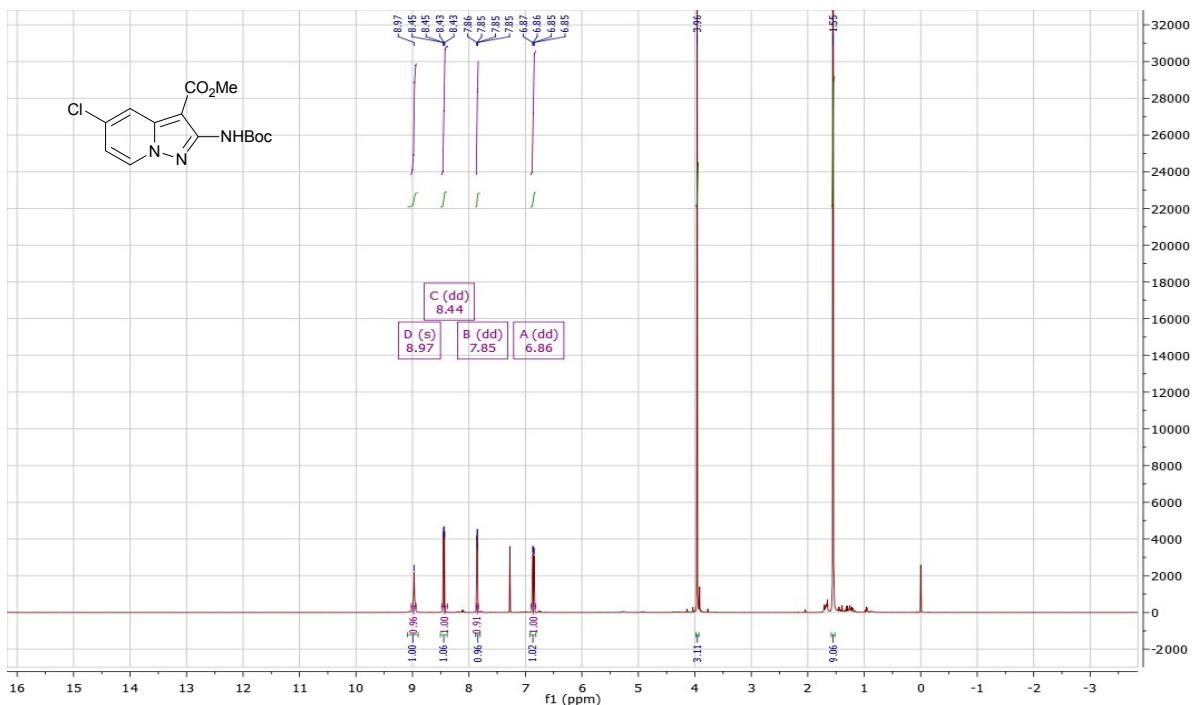


¹³C NMR (101 MHz, DMSO-d₆).

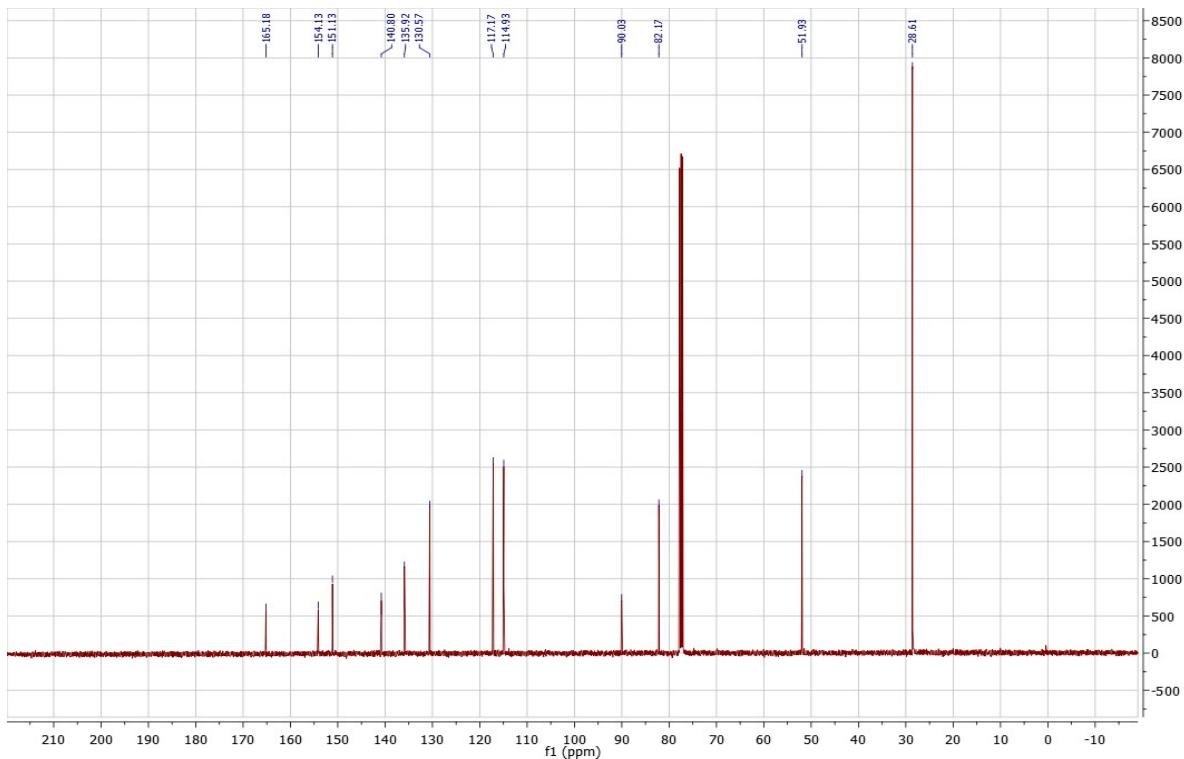


Methyl 2-((tert-butoxycarbonyl)amino)-5-chloropyrazolo[1,5-a]pyridine-3-carboxylate 4

¹H NMR (400 MHz, CDCl₃)

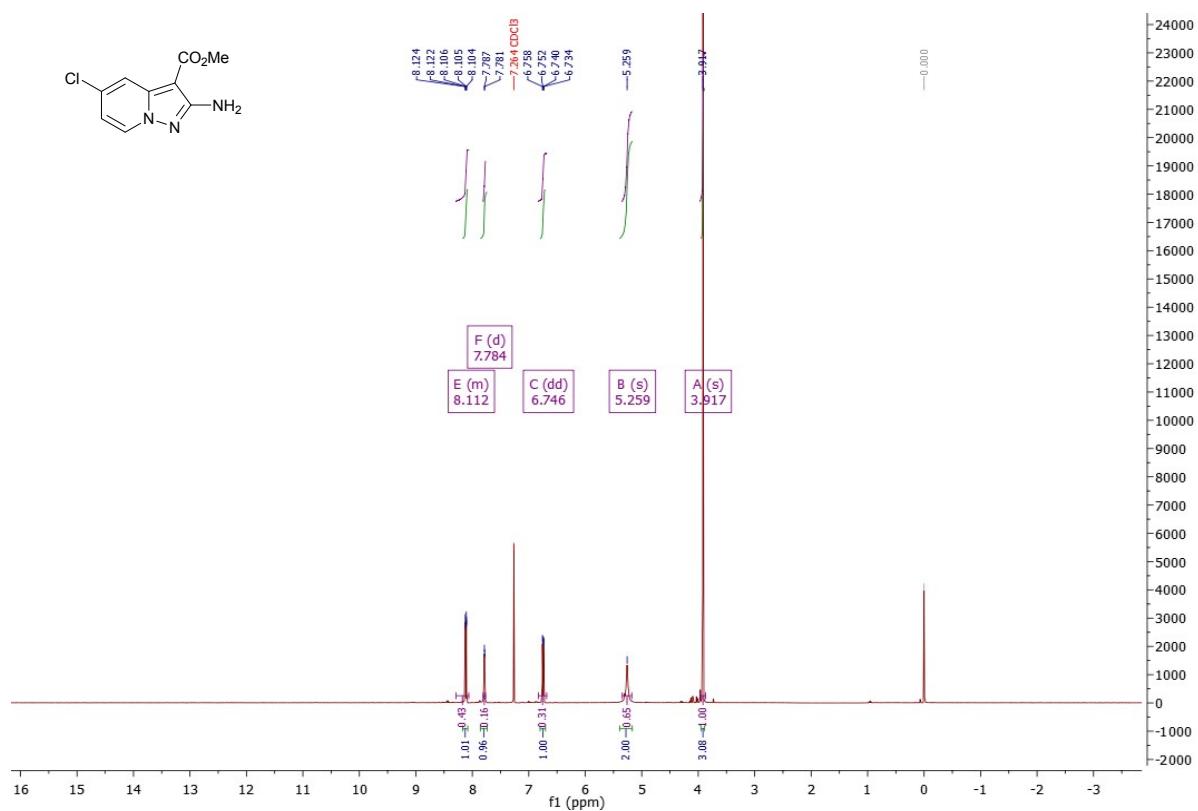


¹³C NMR (101 MHz, CDCl₃).

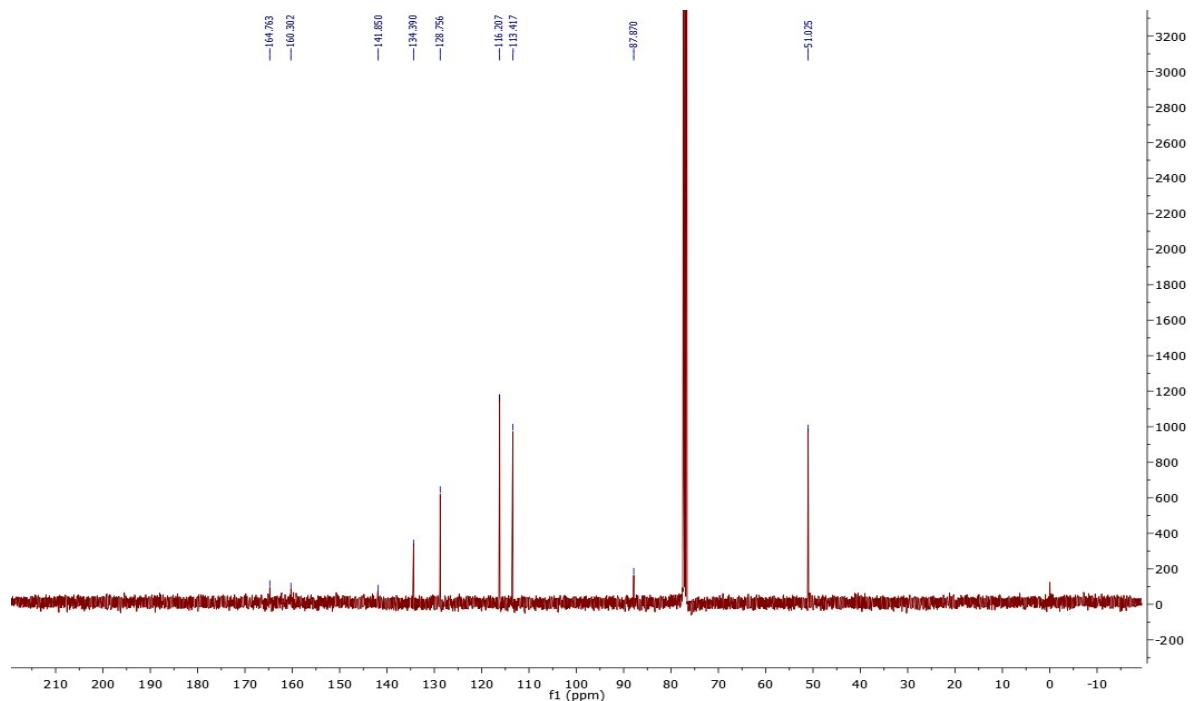


Methyl 2-amino-5-chloropyrazolo[1,5-*a*]pyridine-3-carboxylate 5

¹H NMR (400 MHz, CDCl₃)

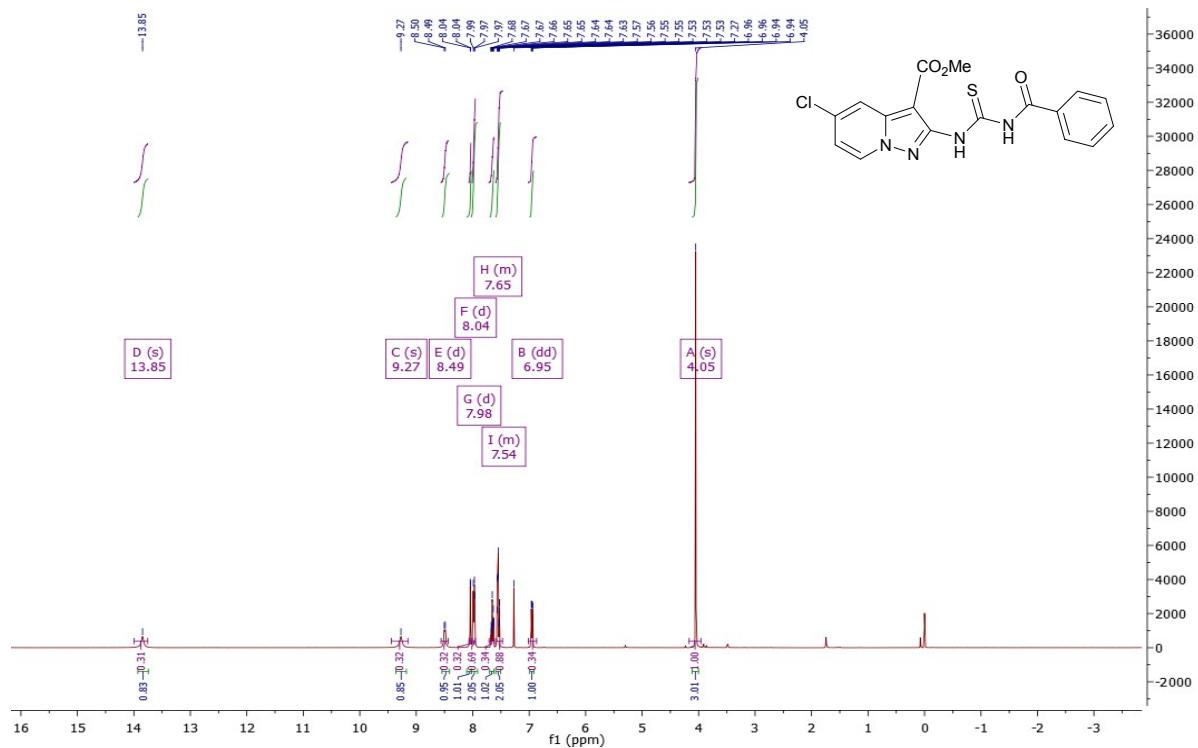


¹³C NMR (101 MHz, CDCl₃).

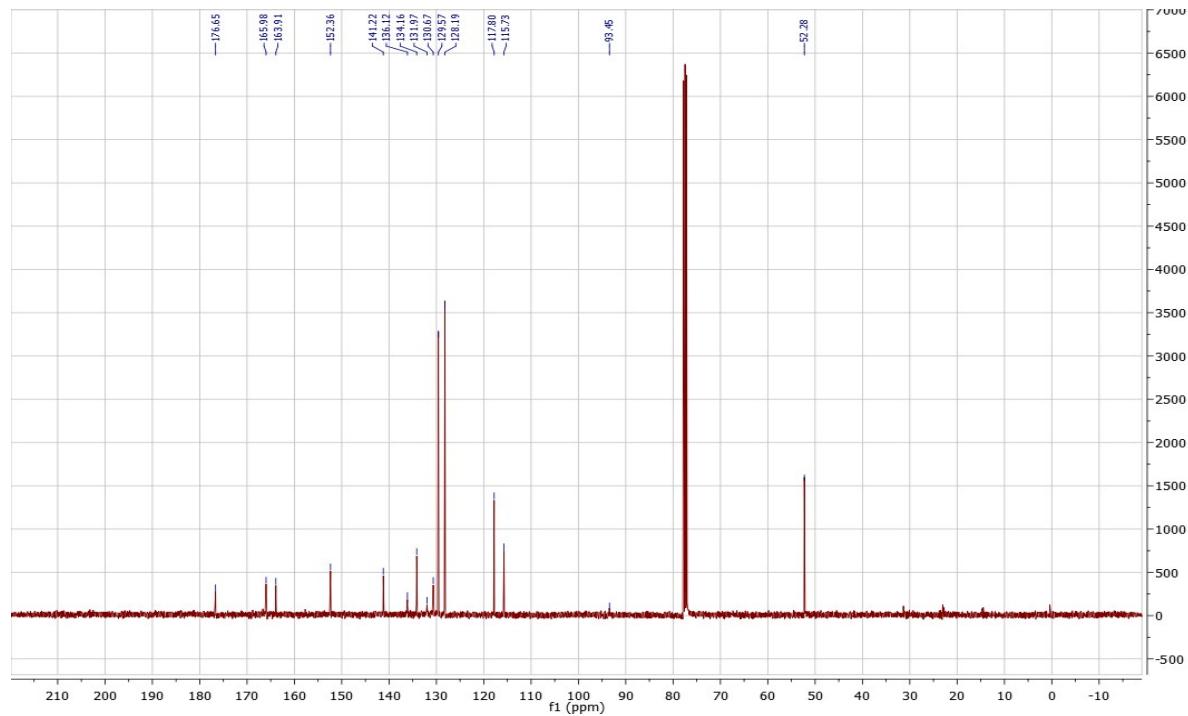


Methyl 2-(3-benzoylthioureido)-5-chloropyrazolo[1,5-*a*]pyridine-3-carboxylate 6

¹H NMR (400 MHz, CDCl₃)

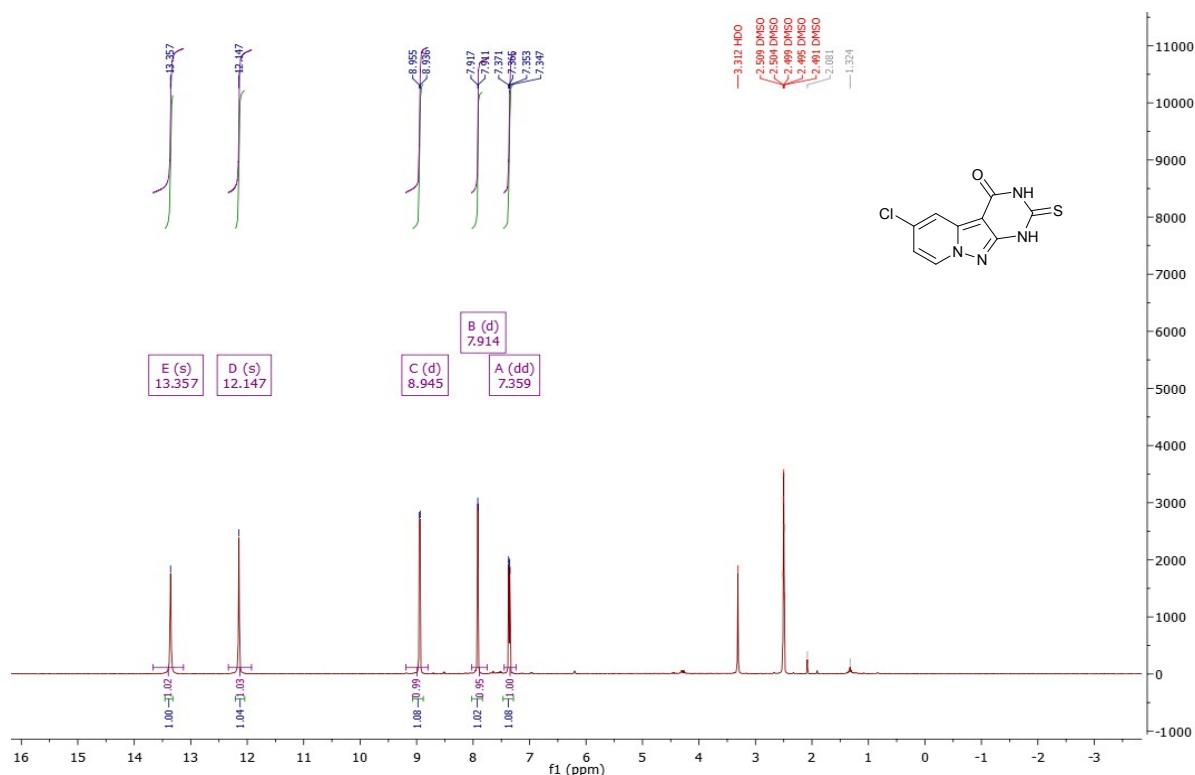


¹³C NMR (101 MHz, CDCl₃).

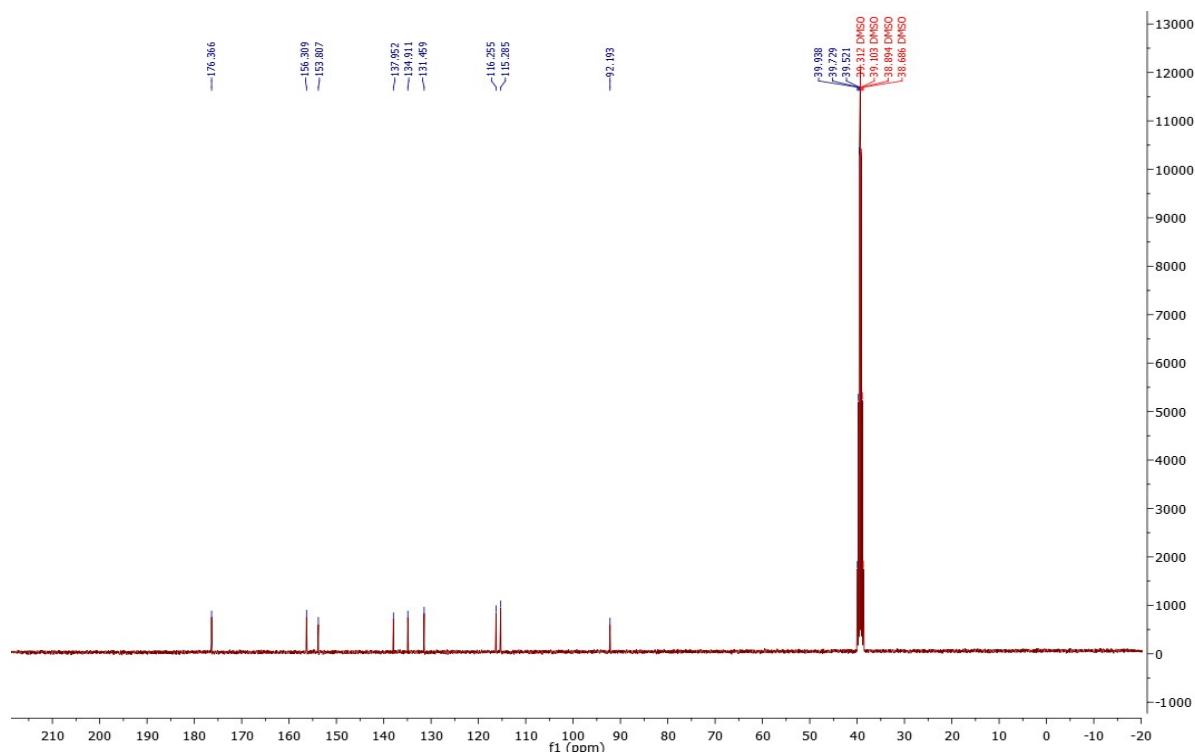


6-Chloro-2-thioxo-2,3-dihydropyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(1H)-one 7

^1H NMR (400 MHz, CDCl_3)

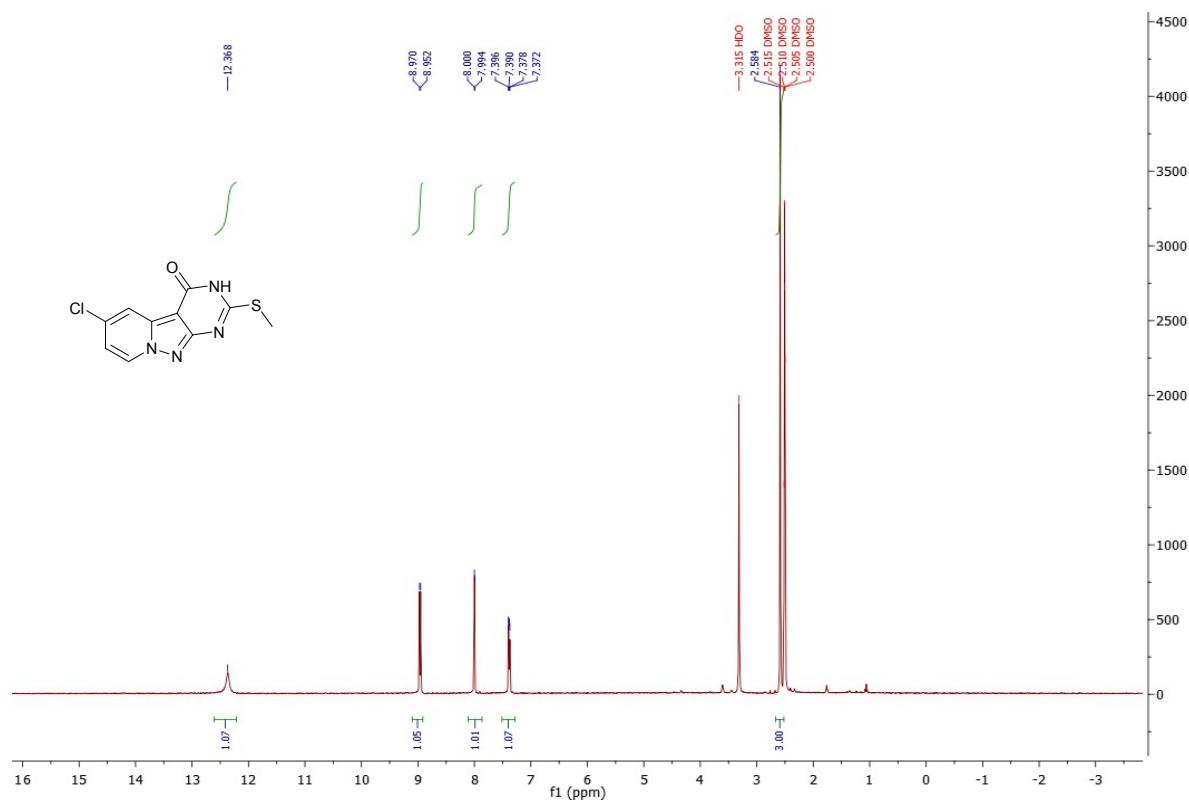


^{13}C NMR (101 MHz, CDCl_3).

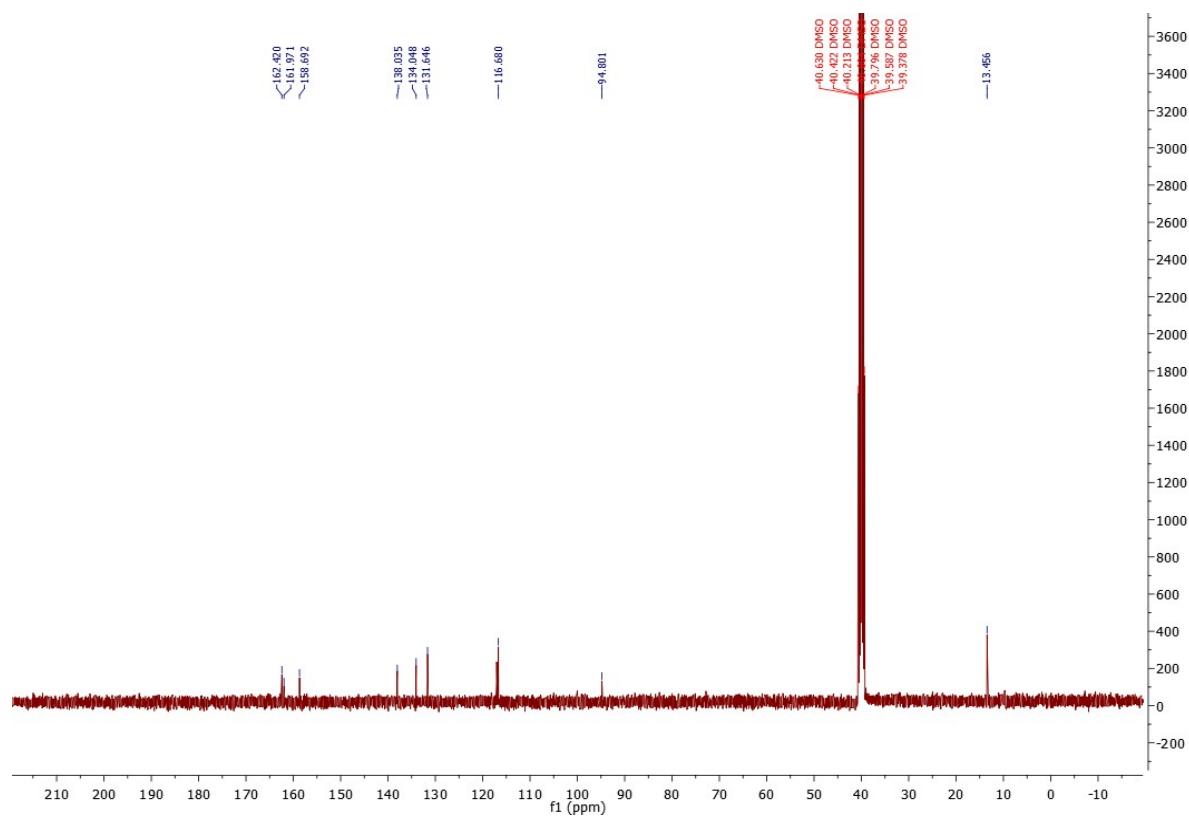


6-Chloro-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 8

¹H NMR (400 MHz, DMSO-*d*₆).

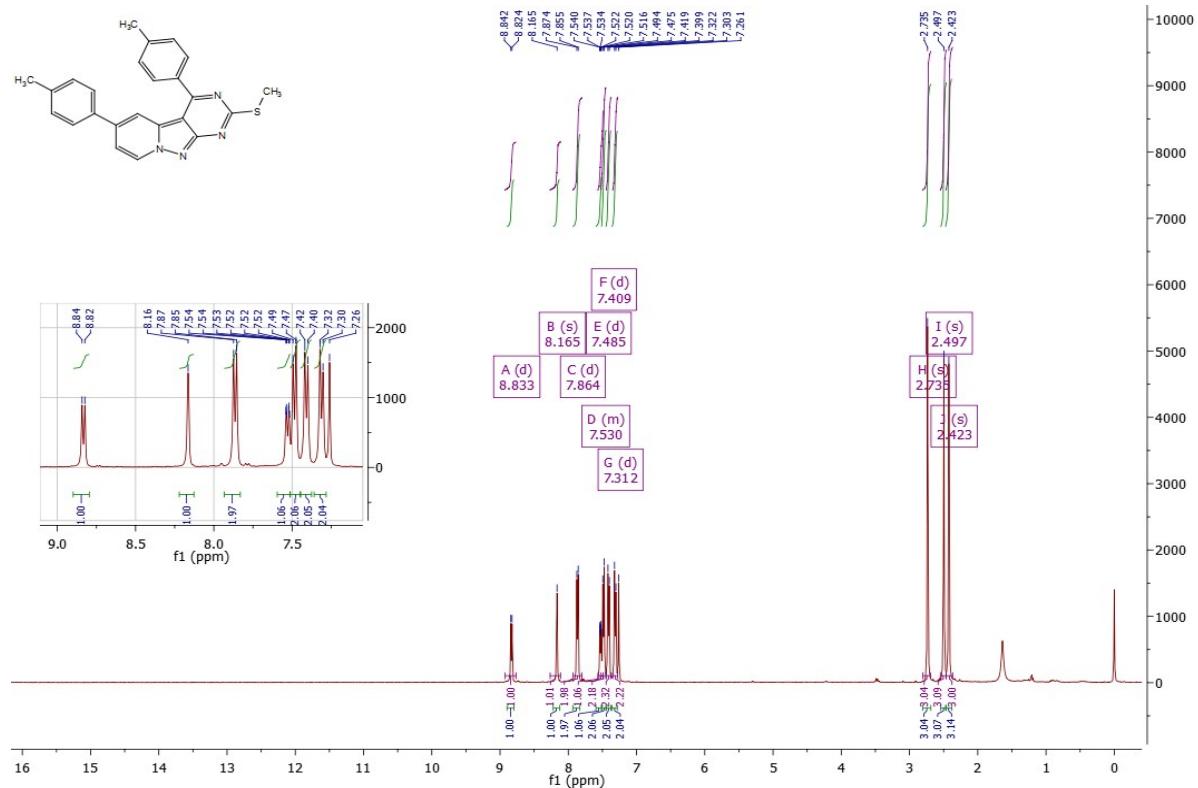


¹³C NMR (101 MHz, DMSO-*d*₆).

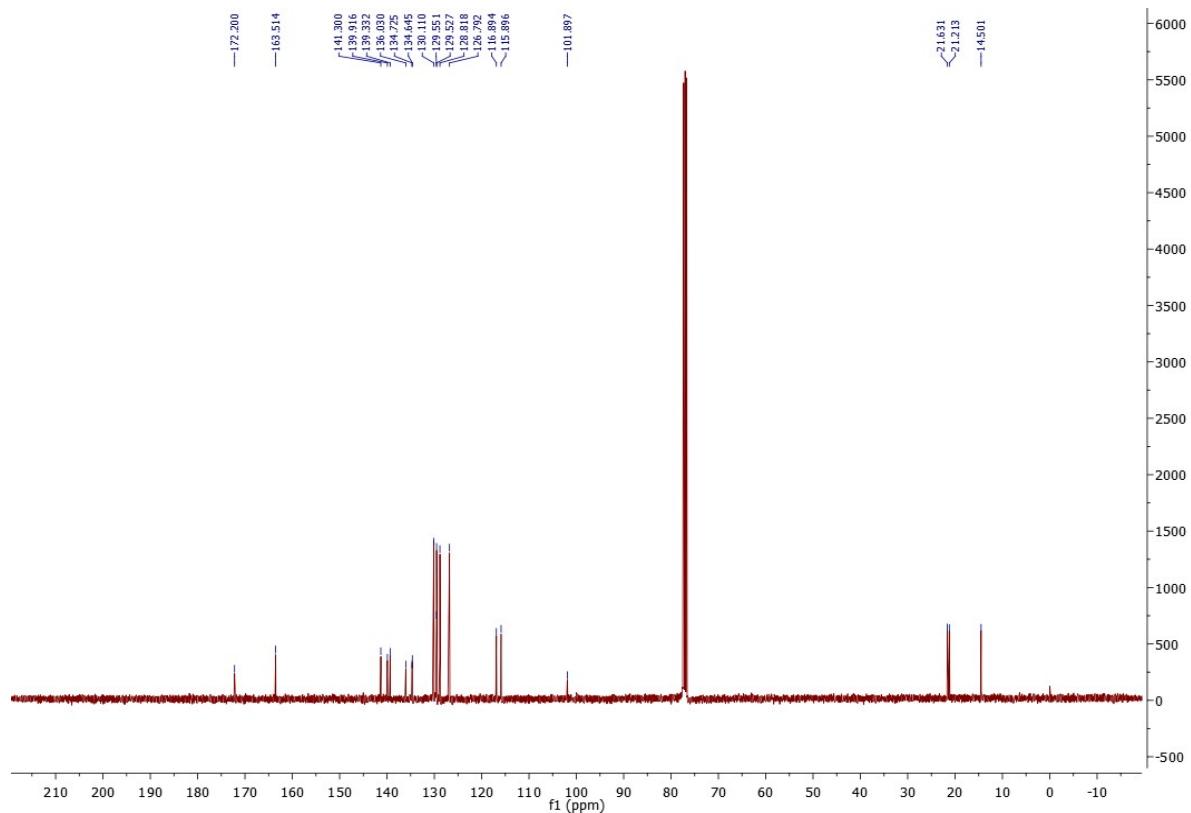


2-(Methylthio)-4,6-di-p-tolylpyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidine 9

¹H NMR (400 MHz, CDCl₃).

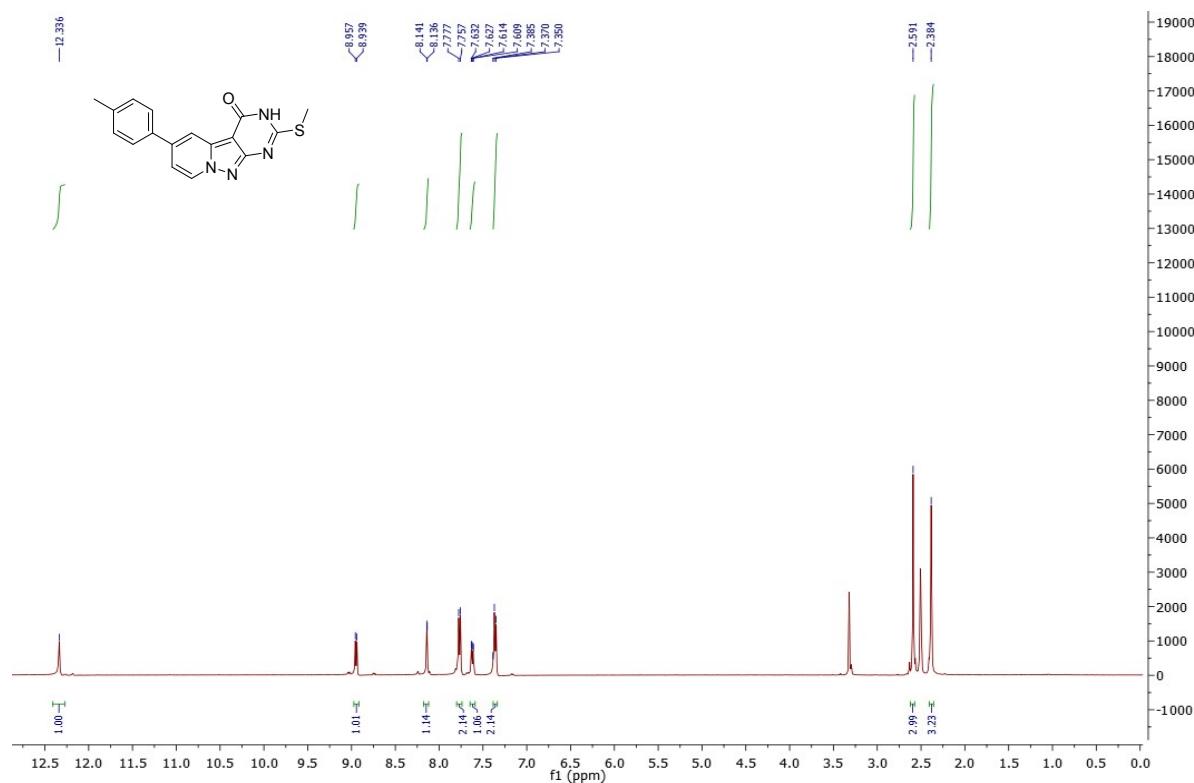


¹³C NMR (101 MHz, CDCl₃).

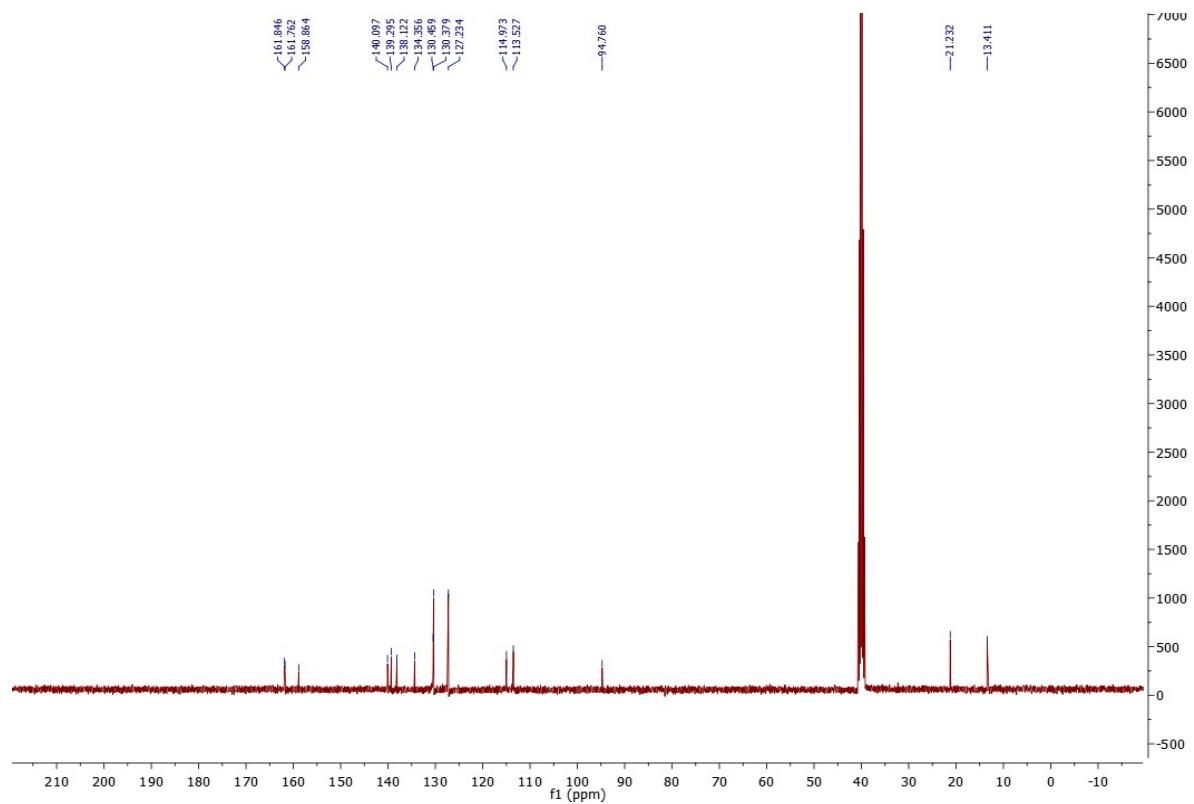


2-(Methylthio)-6-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidin-4(3*H*)-one 10

¹H NMR (400 MHz, DMSO-*d*₆).

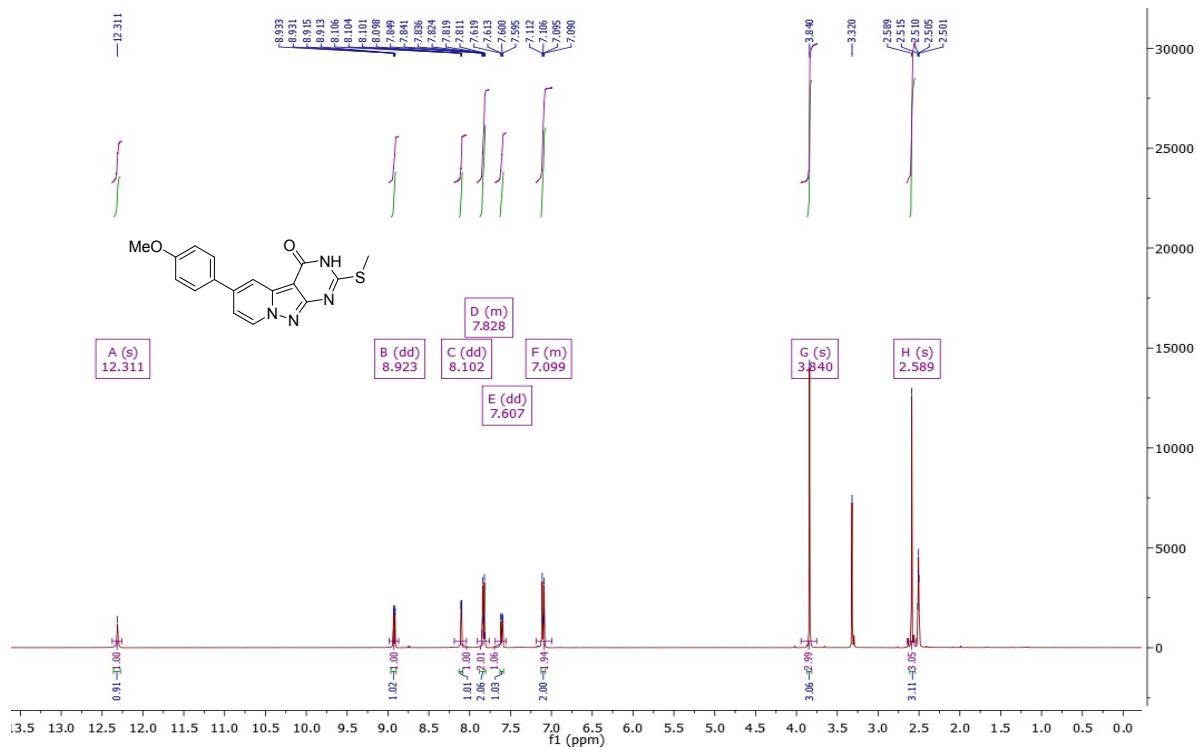


¹³C NMR (101 MHz, DMSO-*d*₆).

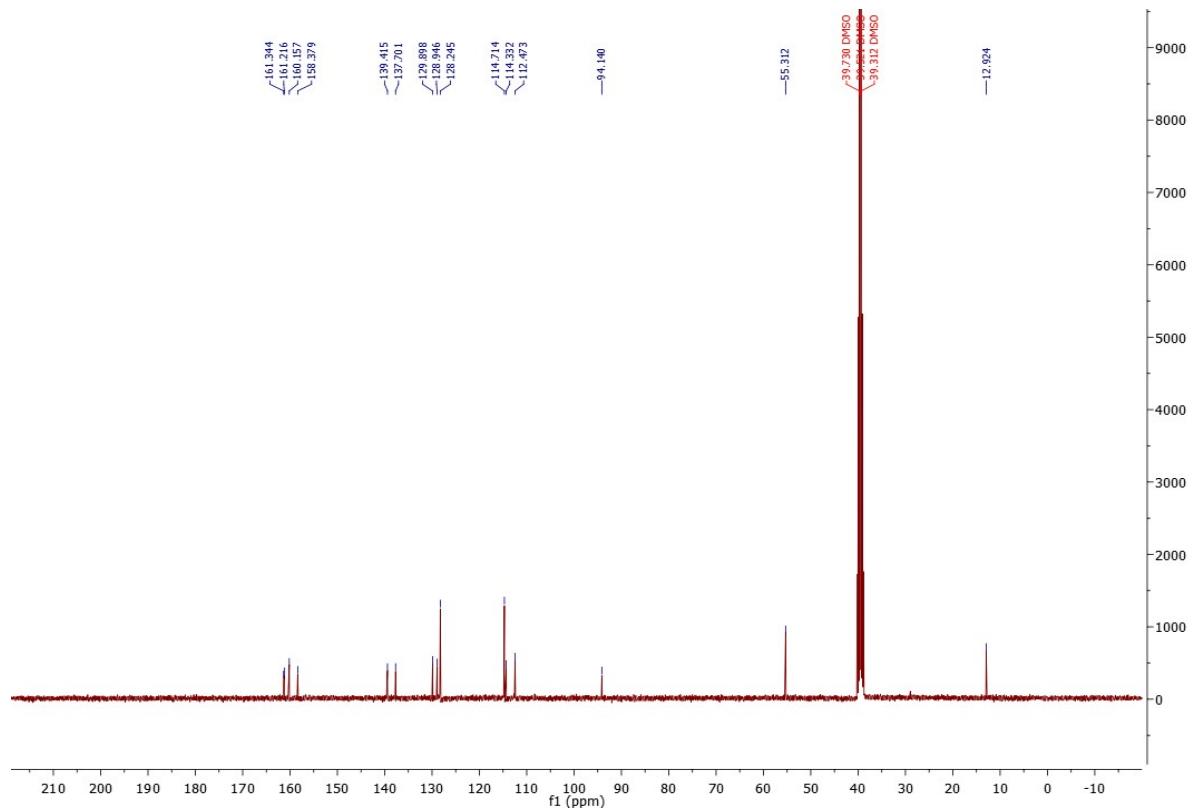


6-(4-Methoxyphenyl)-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 11

^1H NMR (400 MHz, DMSO- d_6).

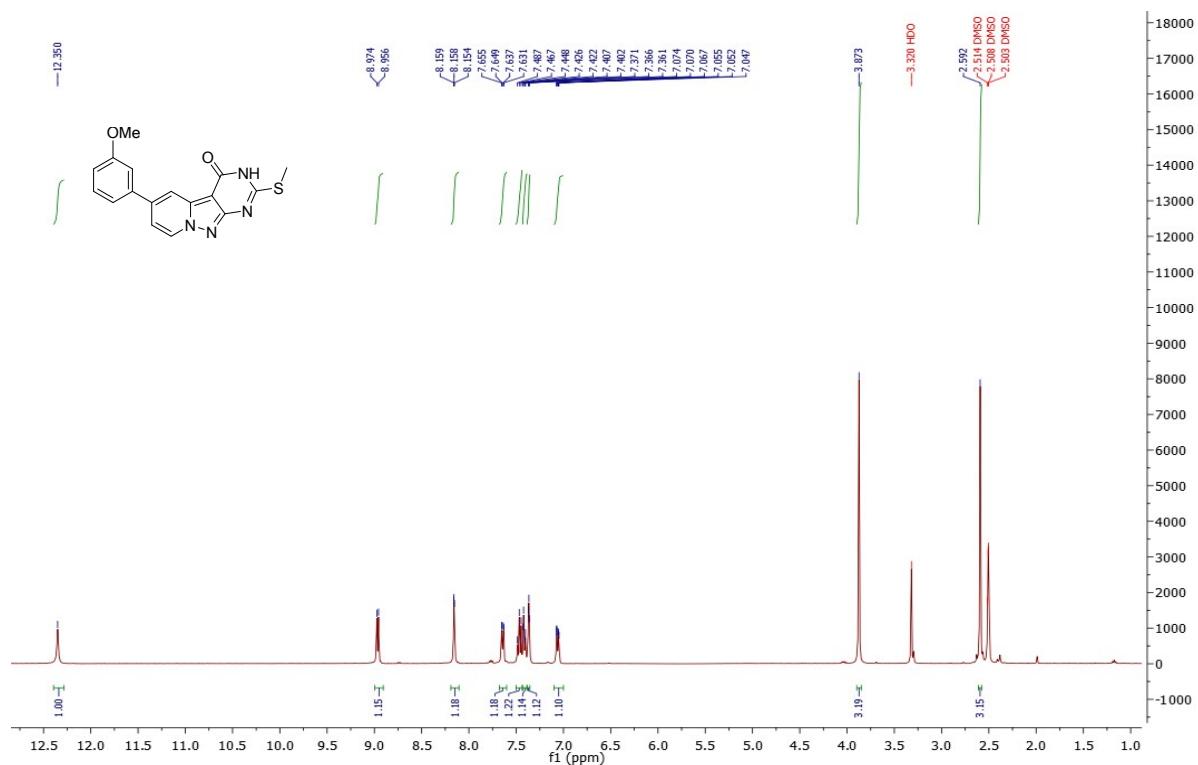


^{13}C NMR (101 MHz, DMSO- d_6).

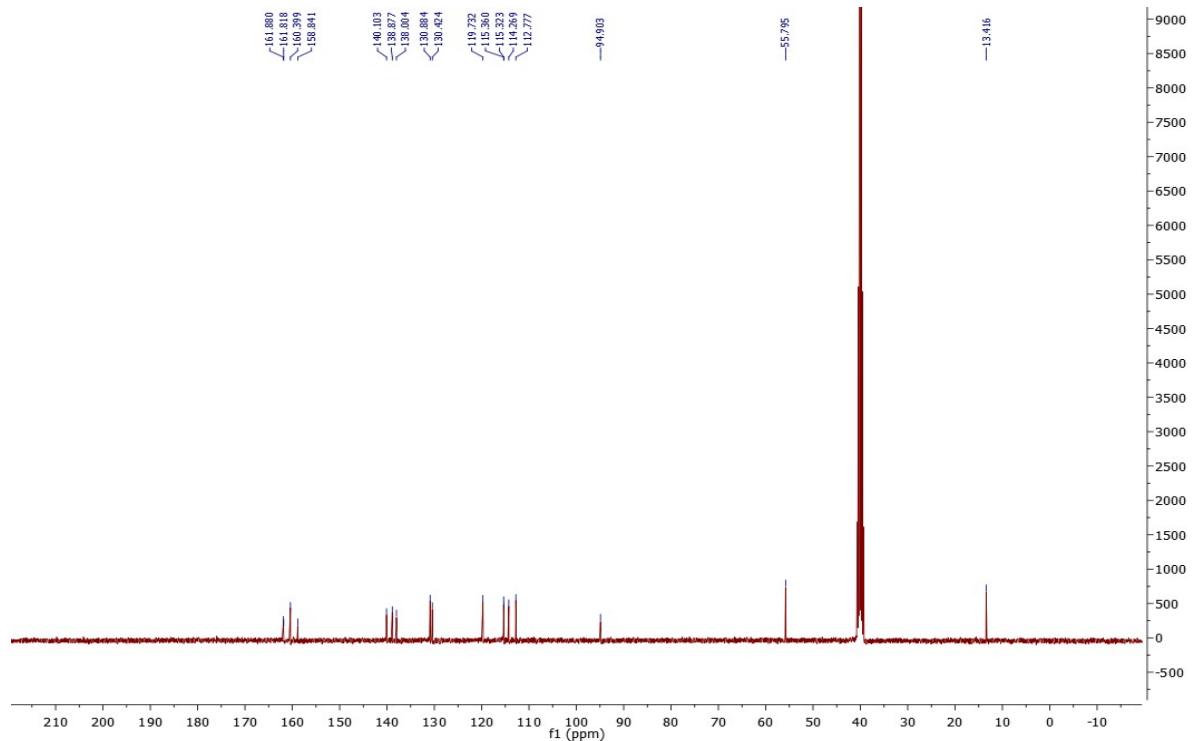


6-(3-Methoxyphenyl)-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 12

^1H NMR (400 MHz, DMSO- d_6).

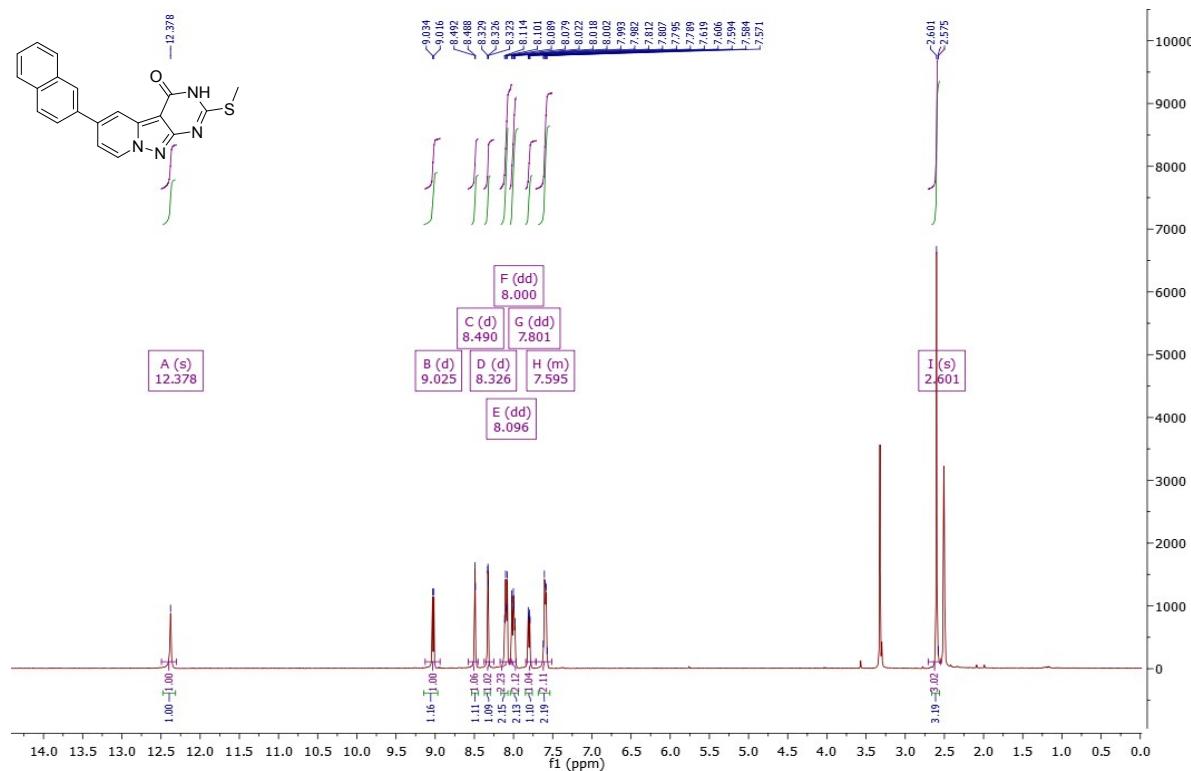


^{13}C NMR (101 MHz, DMSO- d_6).

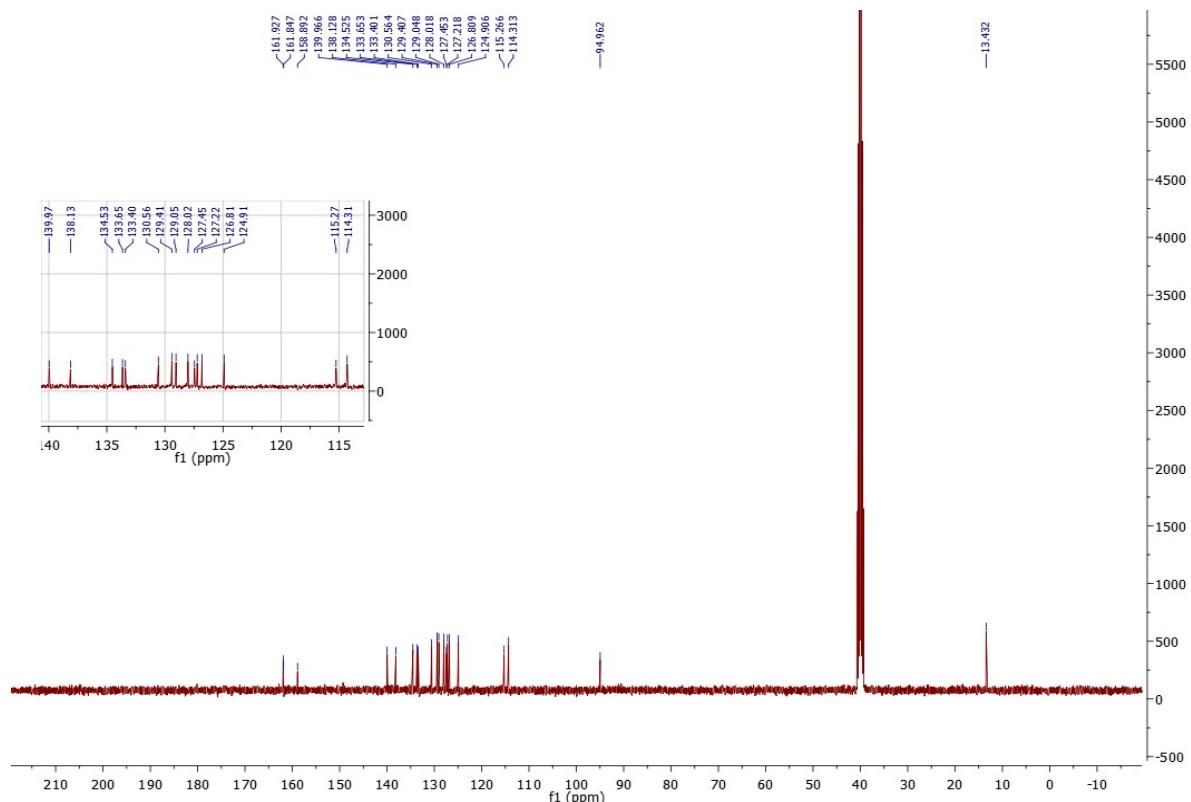


2-(Methylthio)-6-(naphthalen-2-yl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 13

^1H NMR (400 MHz, DMSO- d_6).

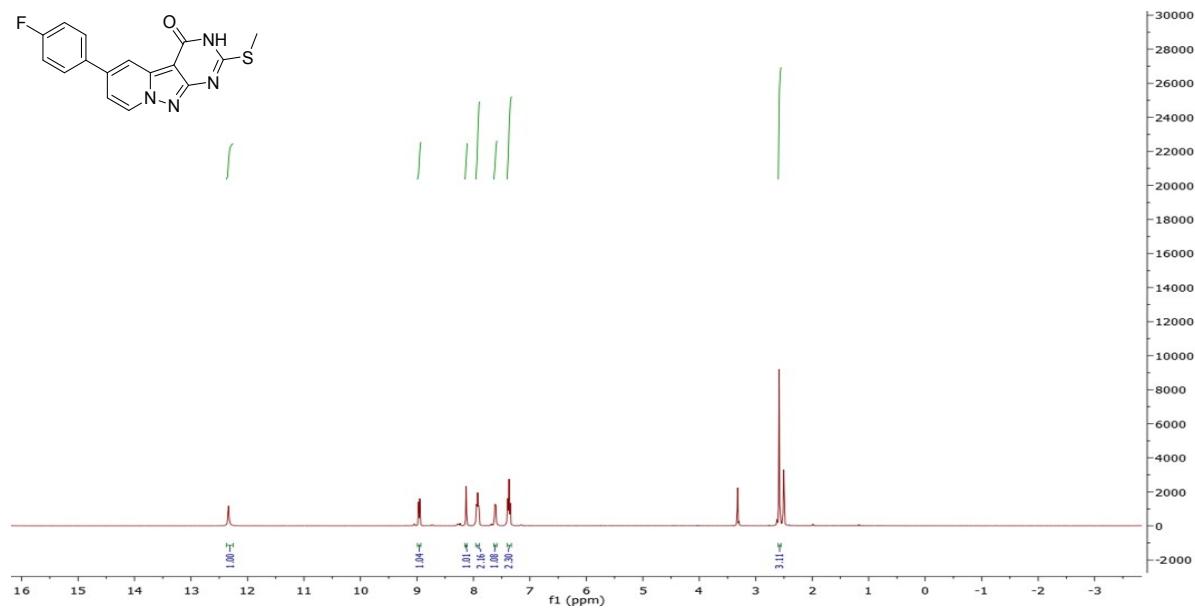


^{13}C NMR (101 MHz, DMSO- d_6).

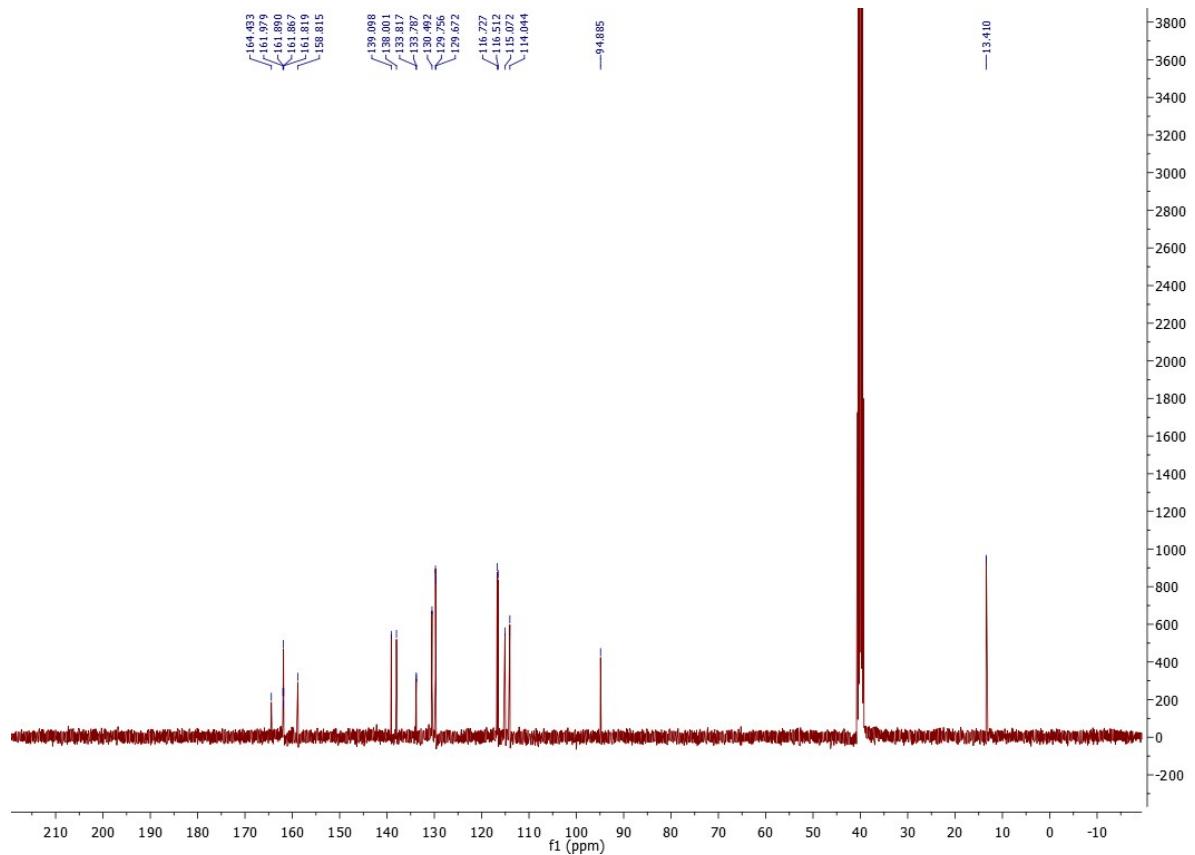


6-(4-Fluorophenyl)-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 14

^1H NMR (400 MHz, DMSO- d_6).

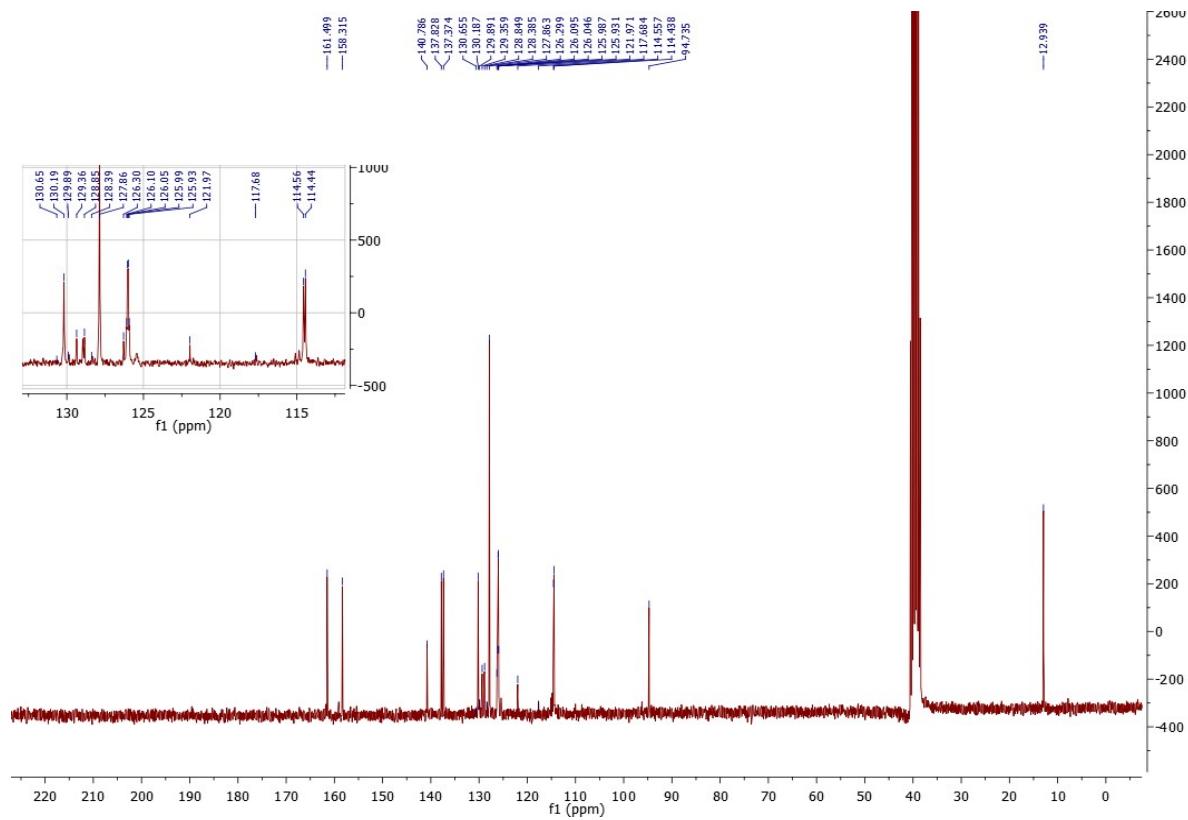
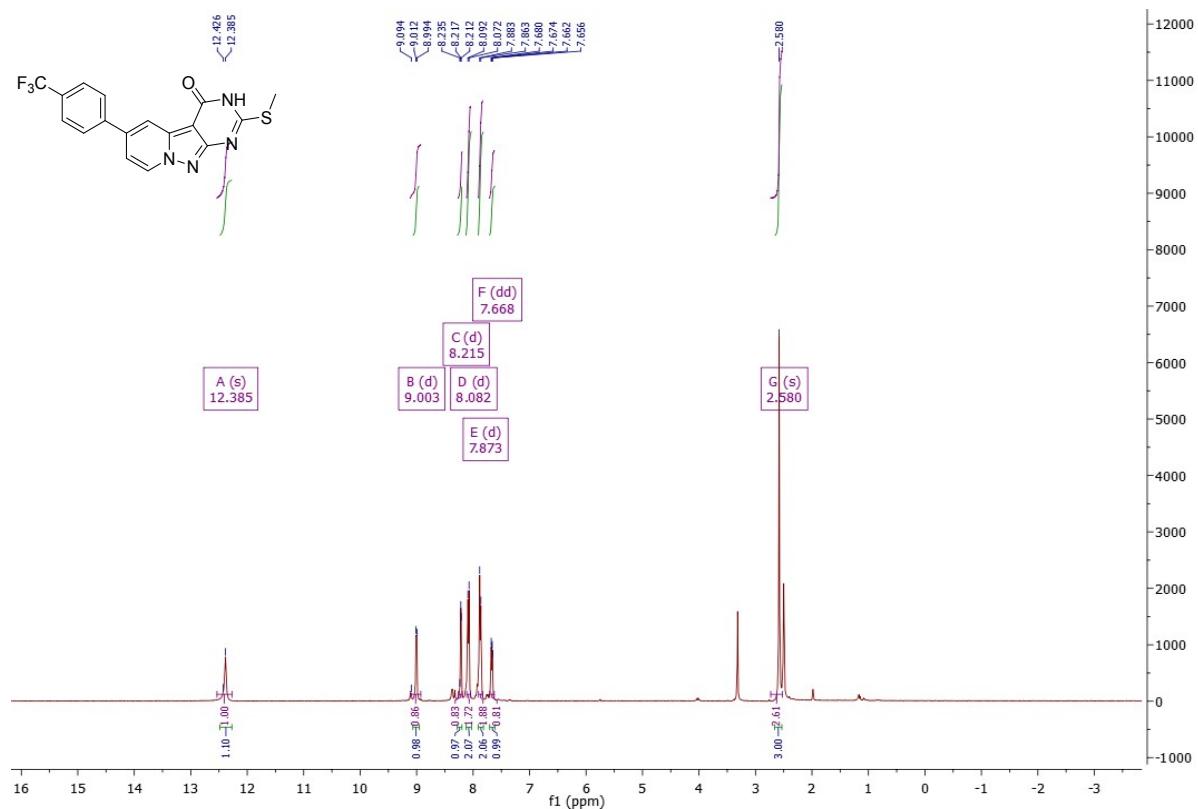


^{13}C NMR (101 MHz, DMSO- d_6).



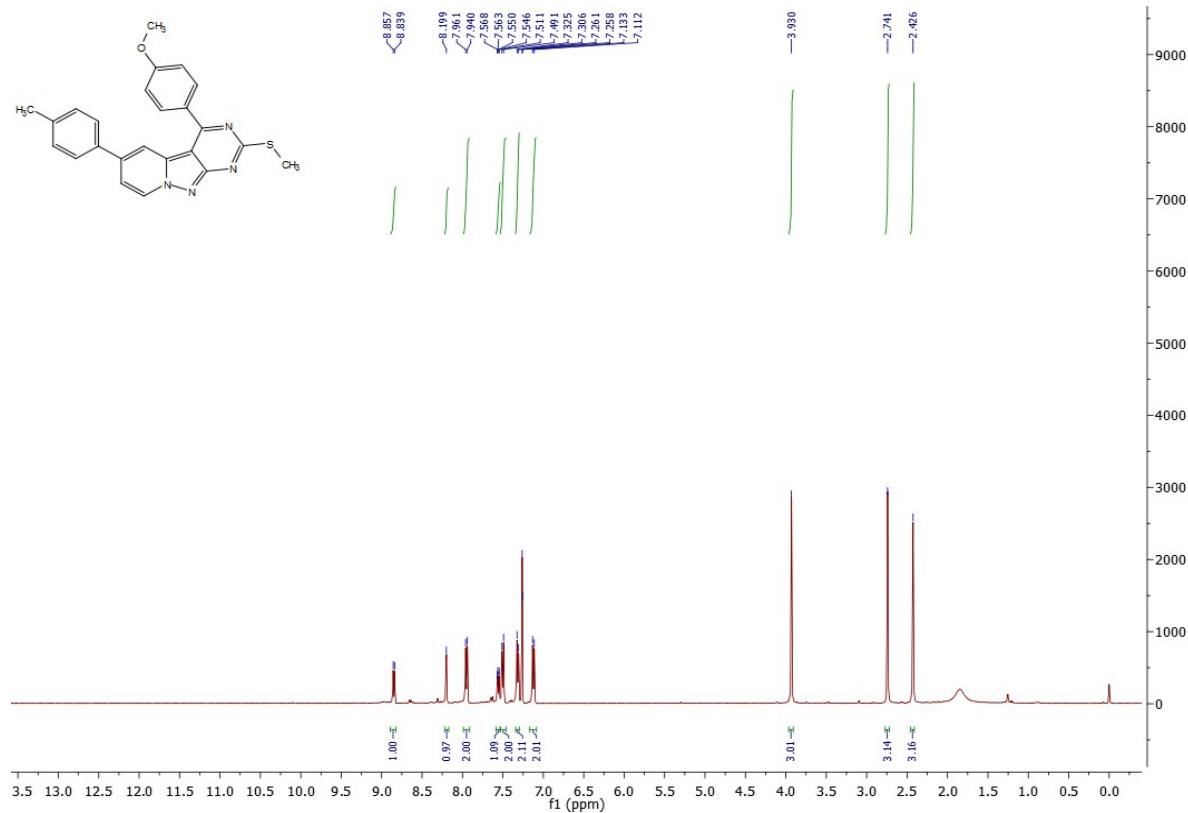
2-(Methylthio)-6-(4-(trifluoromethyl)phenyl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4(3H)-one 15

¹H NMR (400 MHz, DMSO-*d*₆).

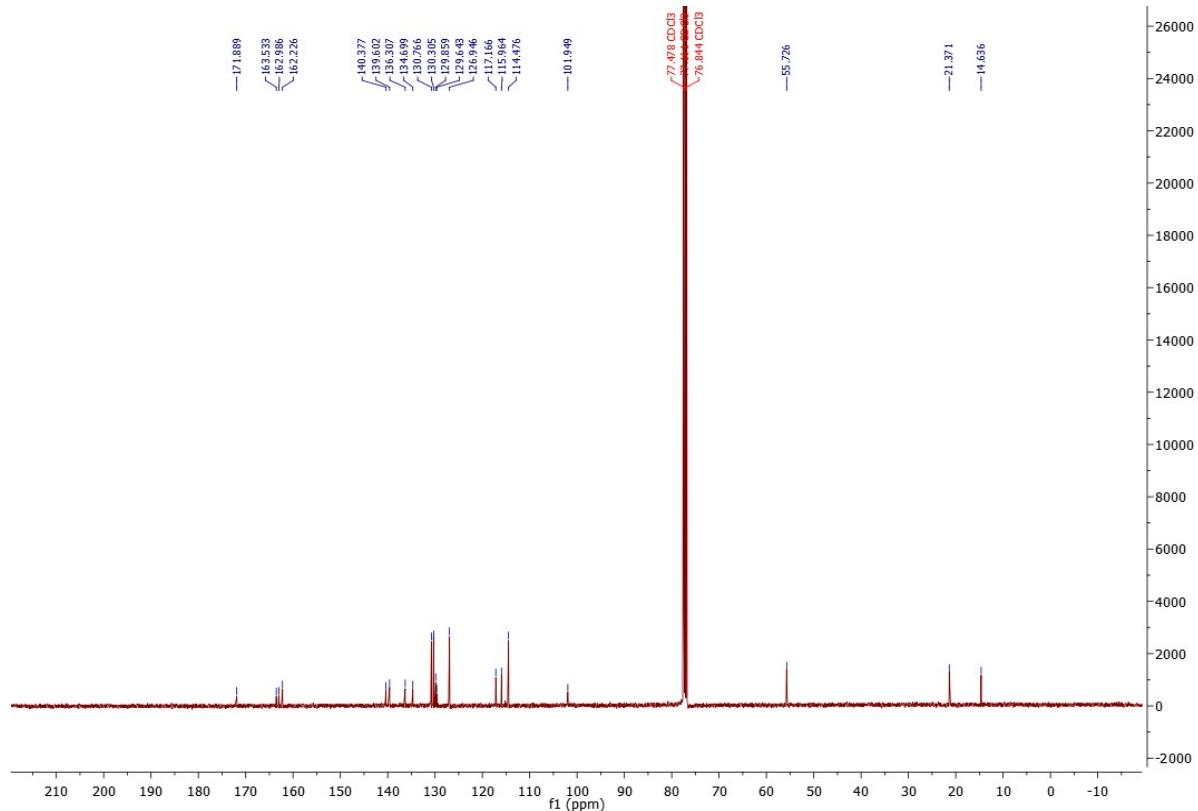


4-(4-Methoxyphenyl)-2-(methylthio)-6-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidine 16

¹H NMR (400 MHz, CDCl₃)

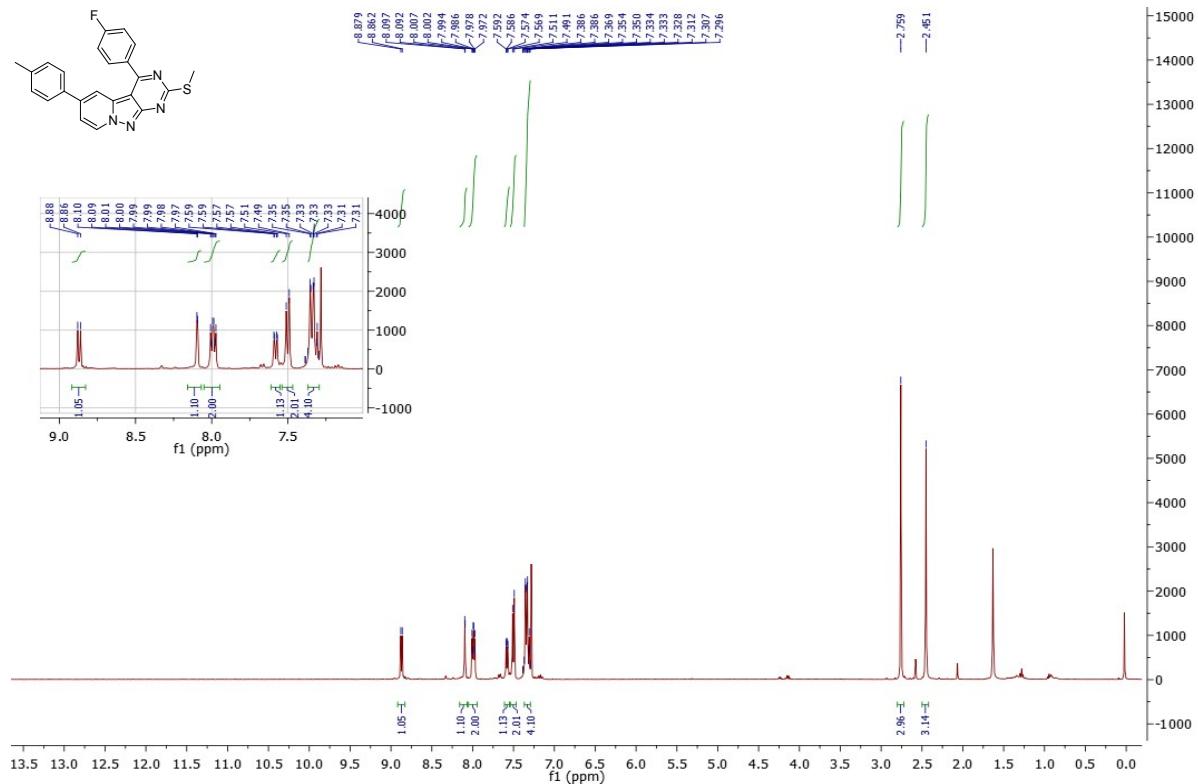


¹³C NMR (101 MHz, CDCl₃).

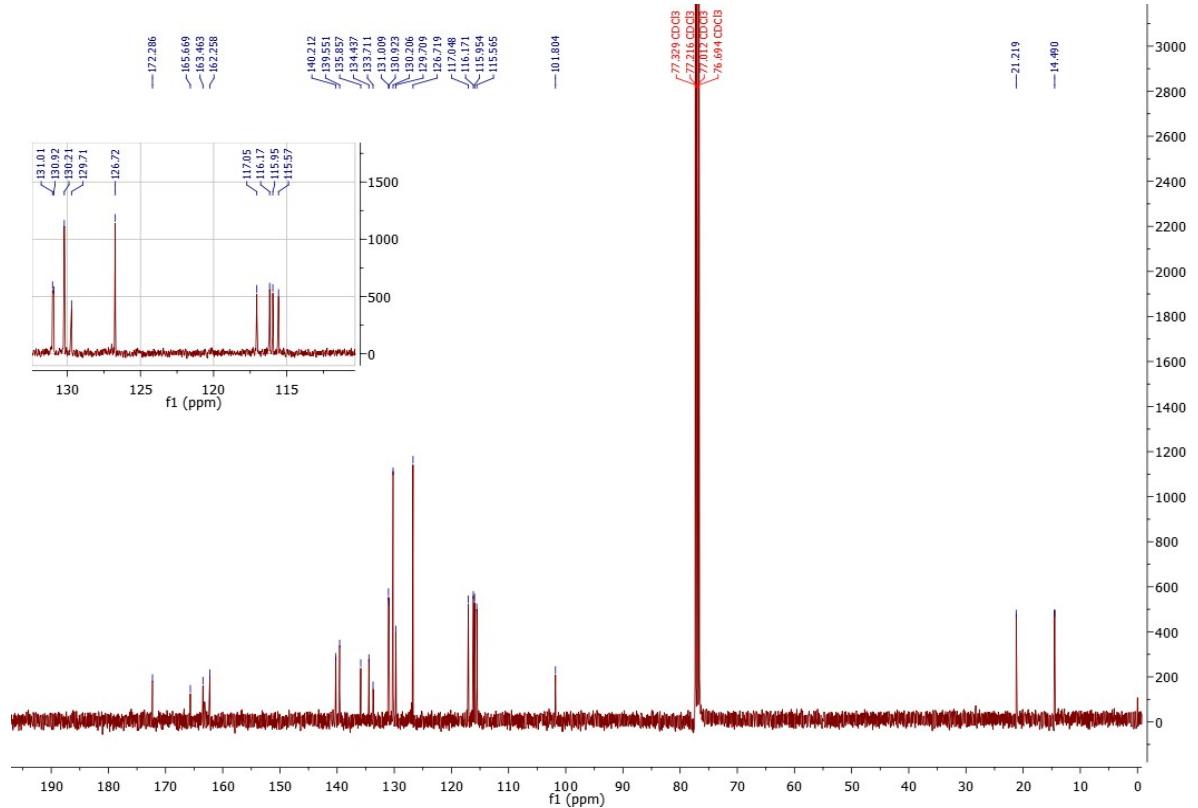


4-(4-Fluorophenyl)-2-(methylthio)-6-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidine 17

¹H NMR (400 MHz, CDCl₃)

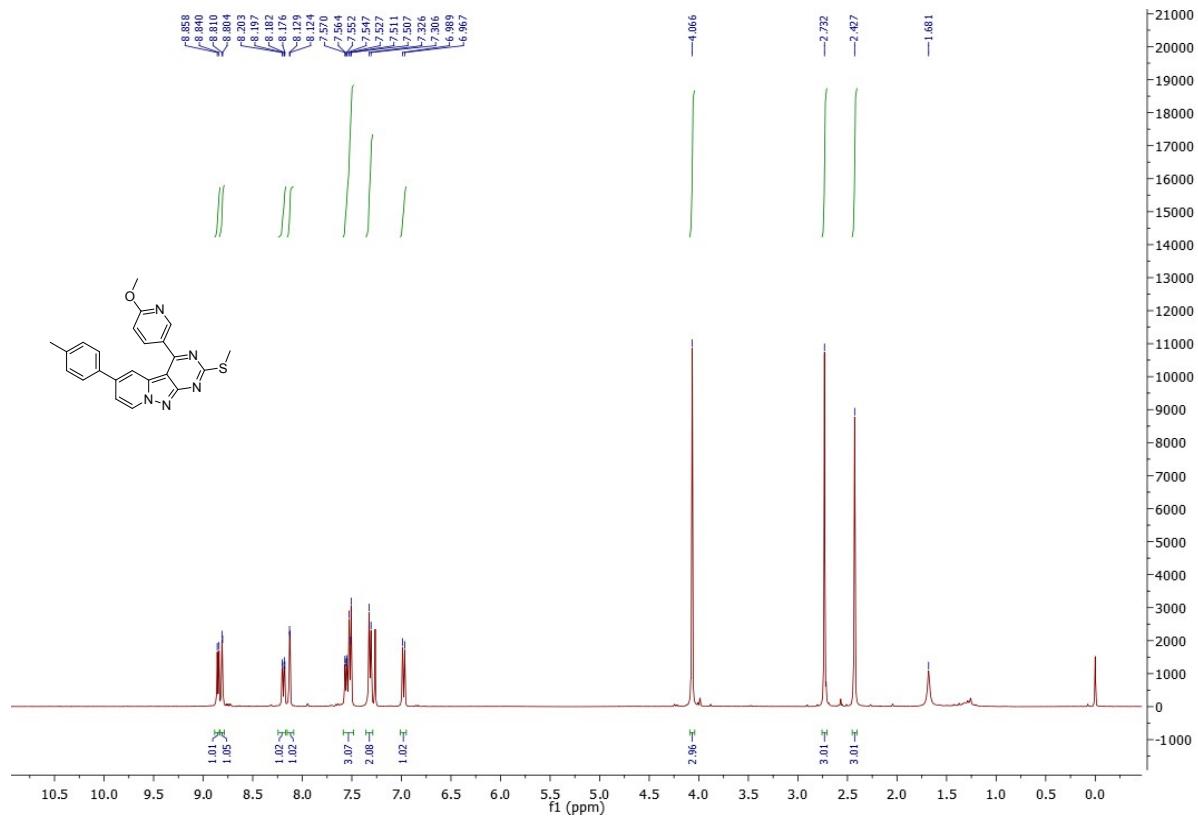


¹³C NMR (101 MHz, CDCl₃).

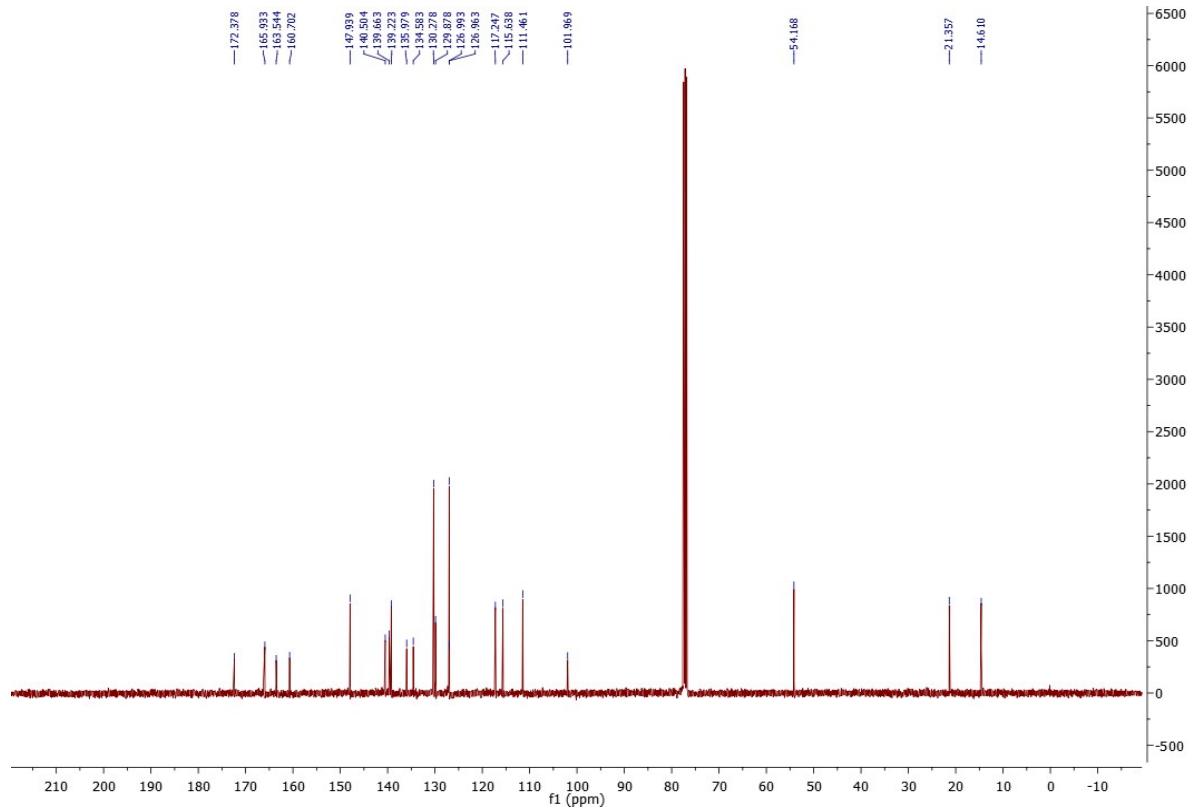


4-(6-Methoxypyridin-3-yl)-2-(methylthio)-6-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidine 18

¹H NMR (400 MHz, CDCl₃)

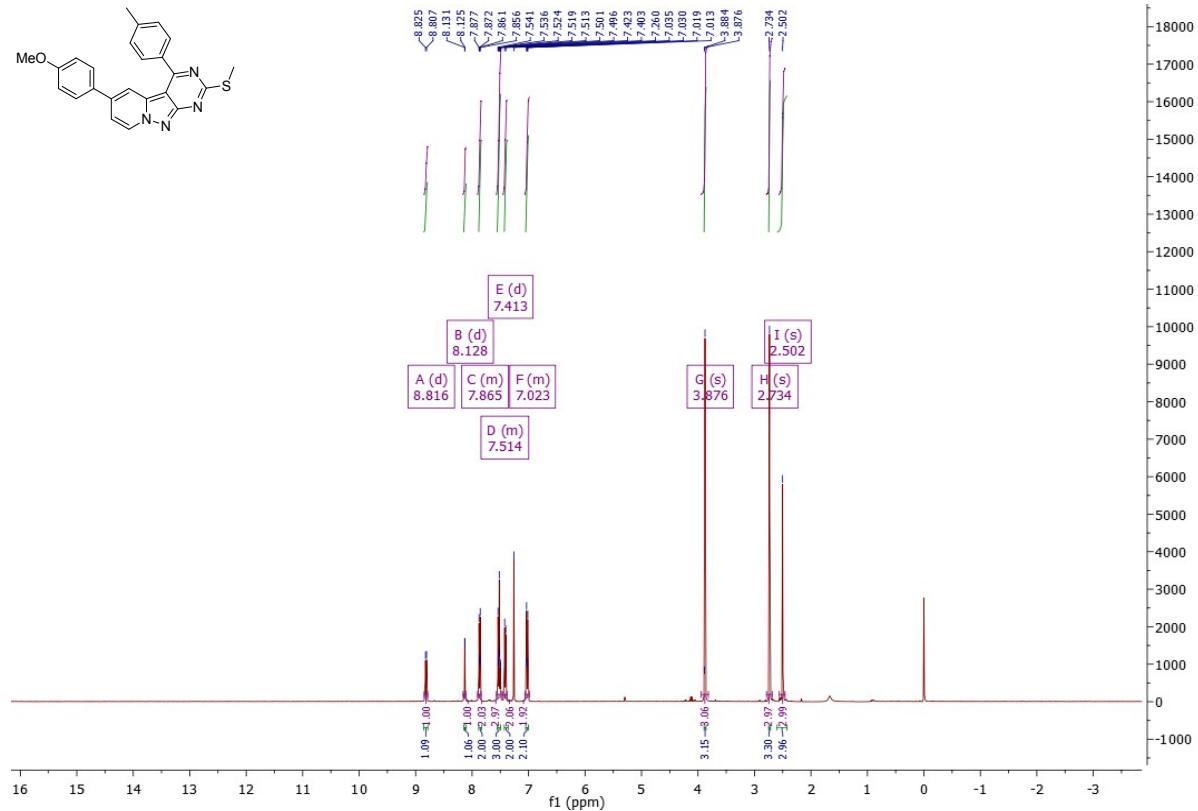


¹³C NMR (101 MHz, CDCl₃).

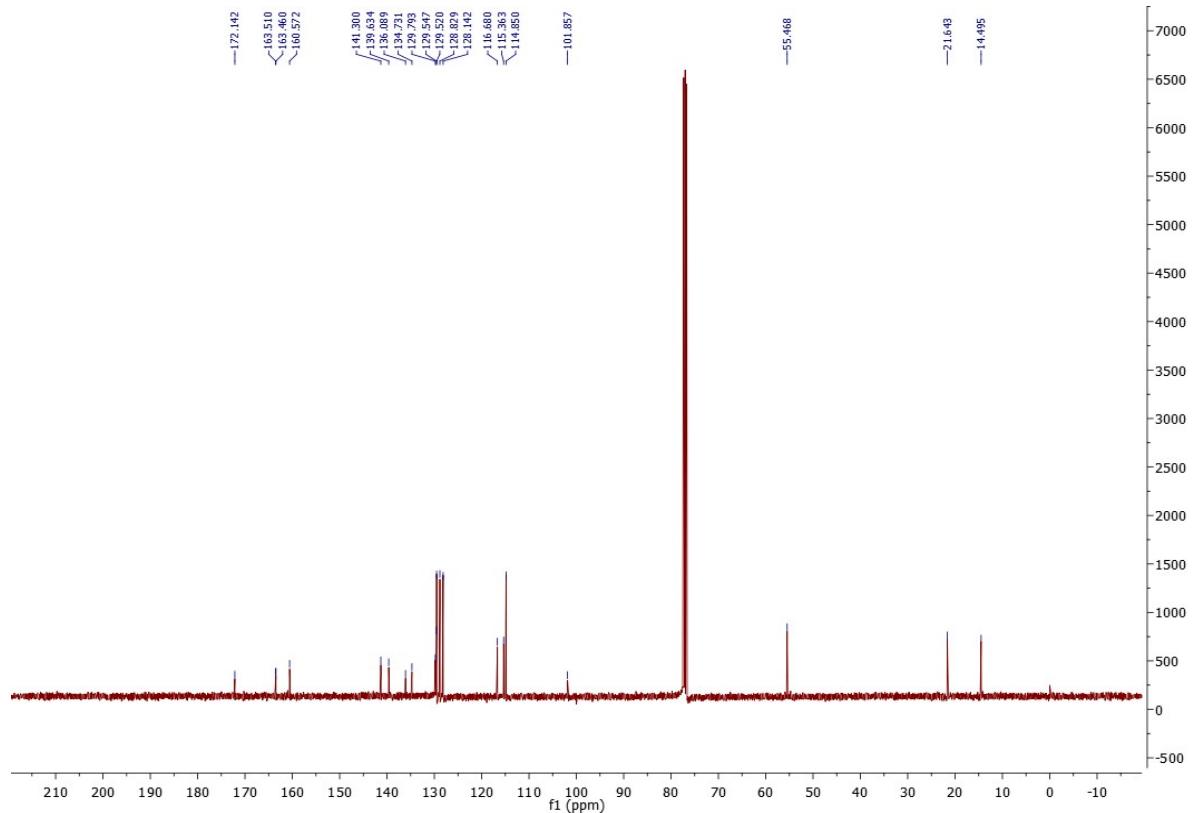


6-(4-Methoxyphenyl)-2-(methylthio)-4-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidine 19

¹H NMR (400 MHz, CDCl₃).

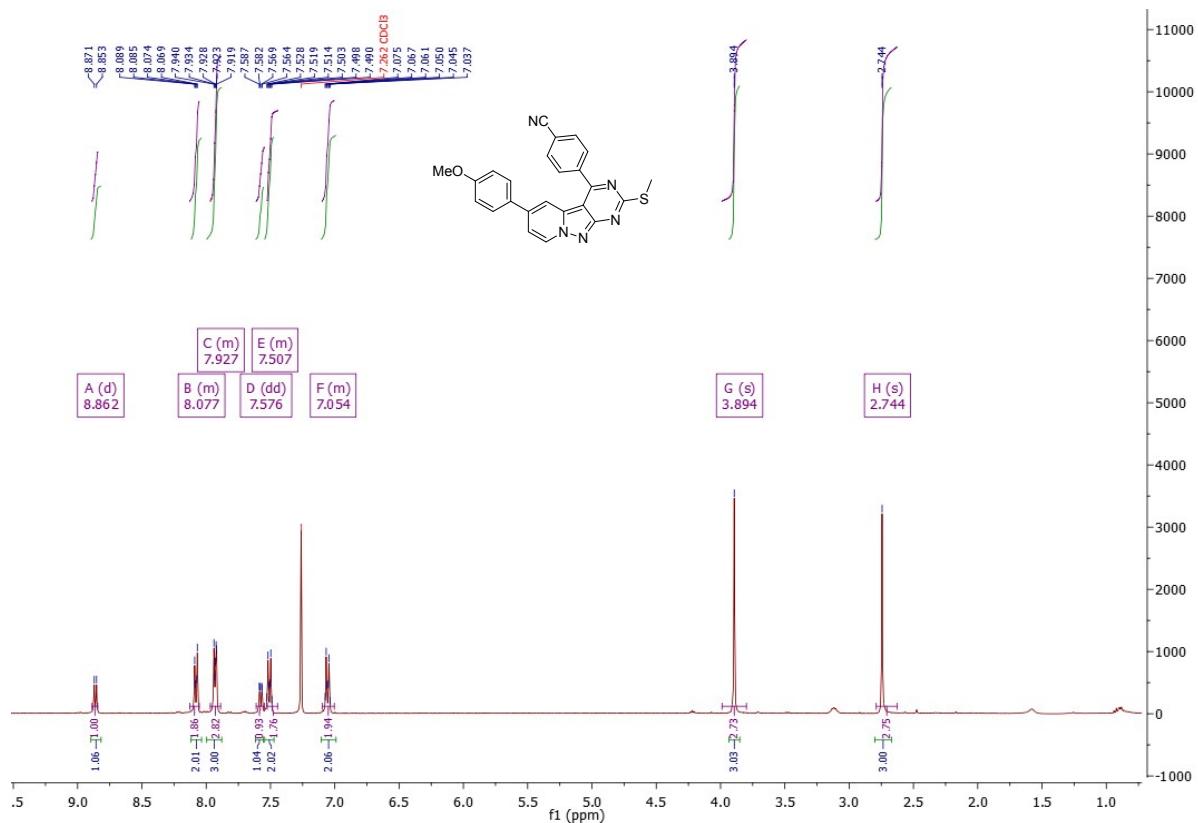


¹³C NMR (101 MHz, CDCl₃).

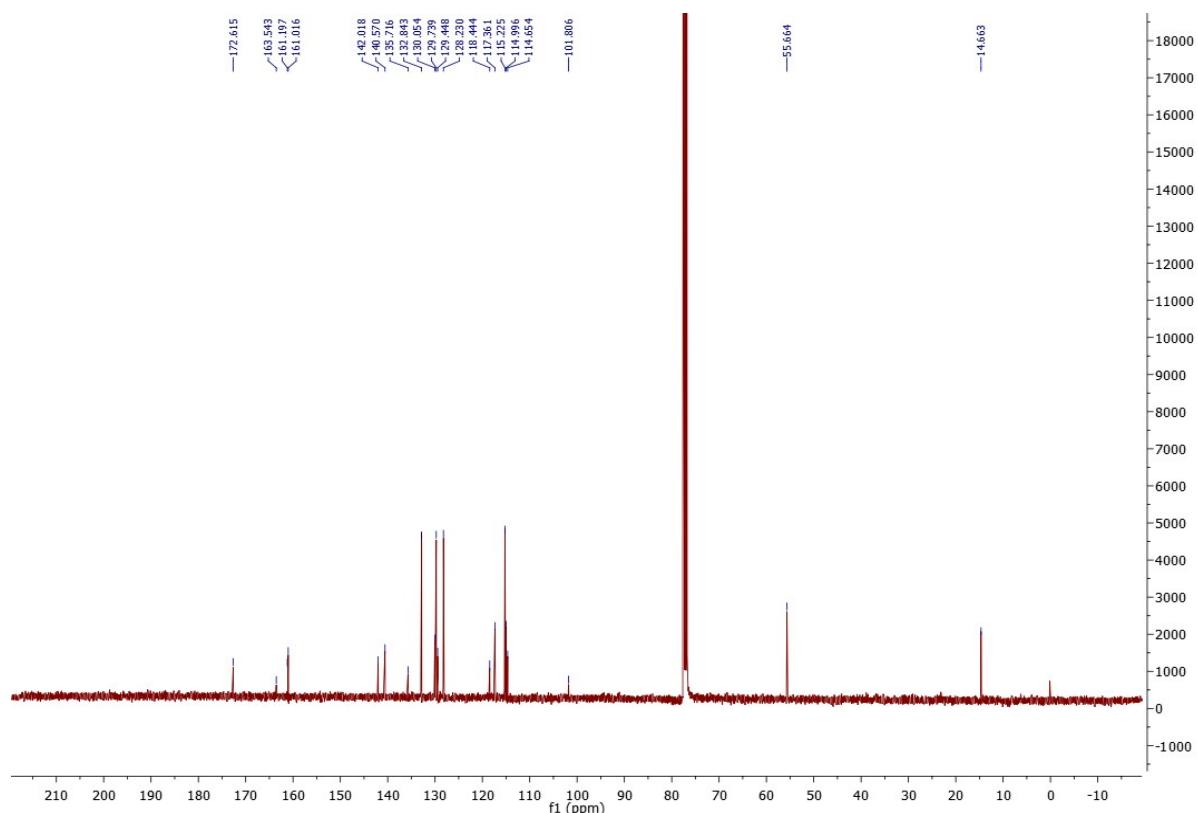


4-(4-Methoxyphenyl)-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidin-4-yl)benzonitrile 20

¹H NMR (400 MHz, DMSO-*d*₆).

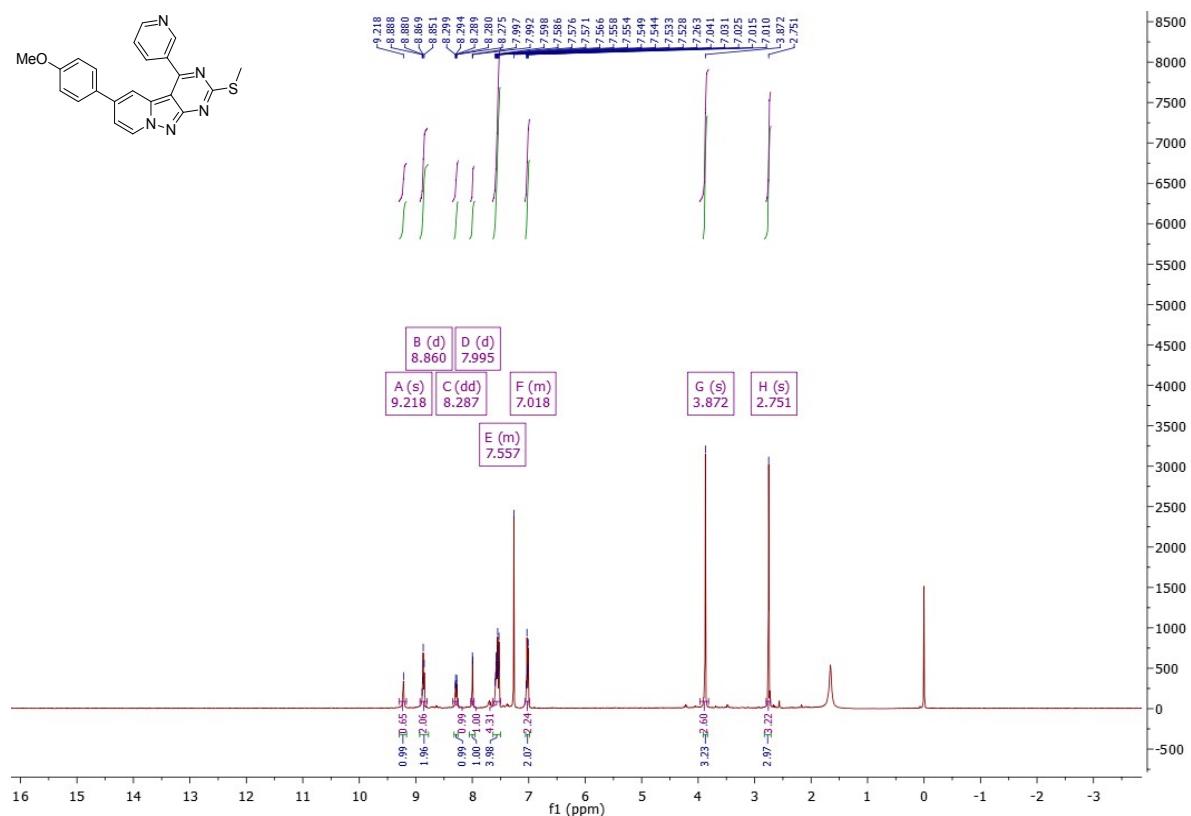


¹³C NMR (101 MHz, DMSO-*d*₆).

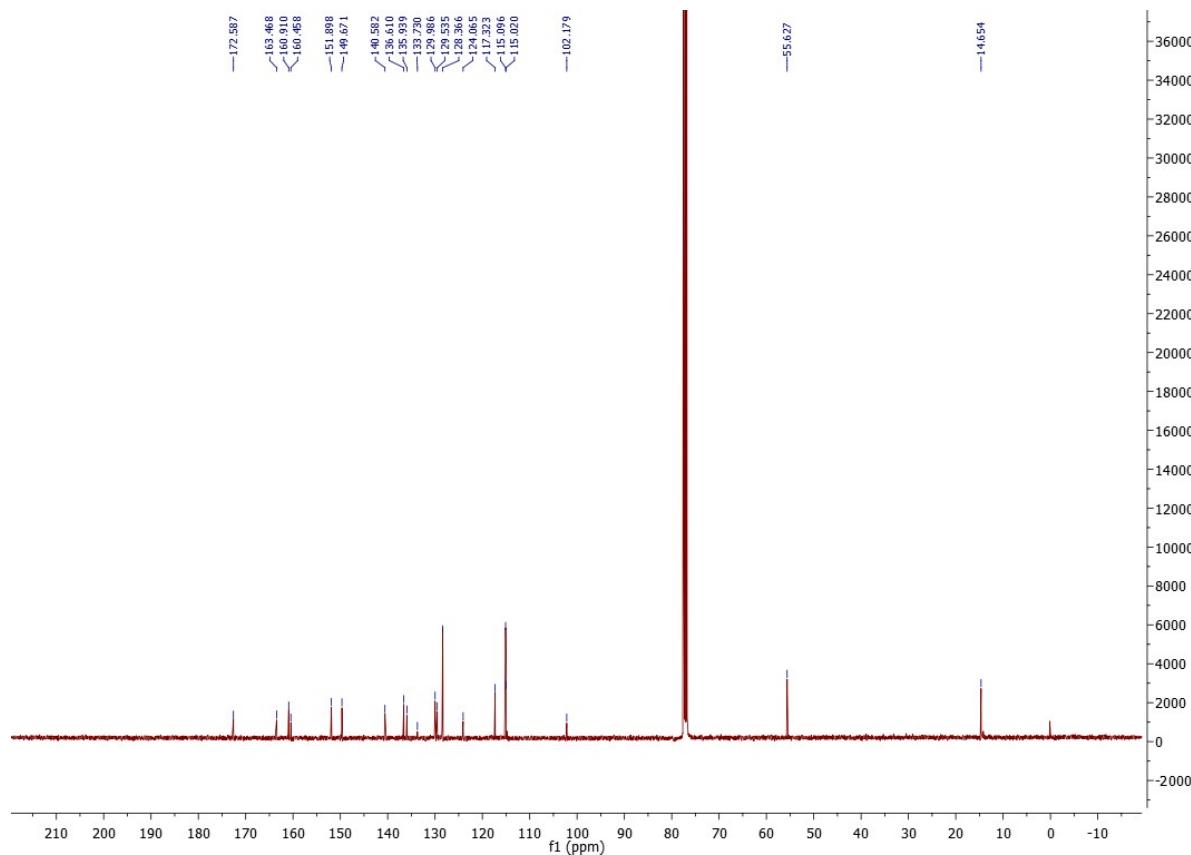


6-(4-Methoxyphenyl)-2-(methylthio)-4-(pyridin-3-yl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidine 21

¹H NMR (400 MHz, CDCl₃).

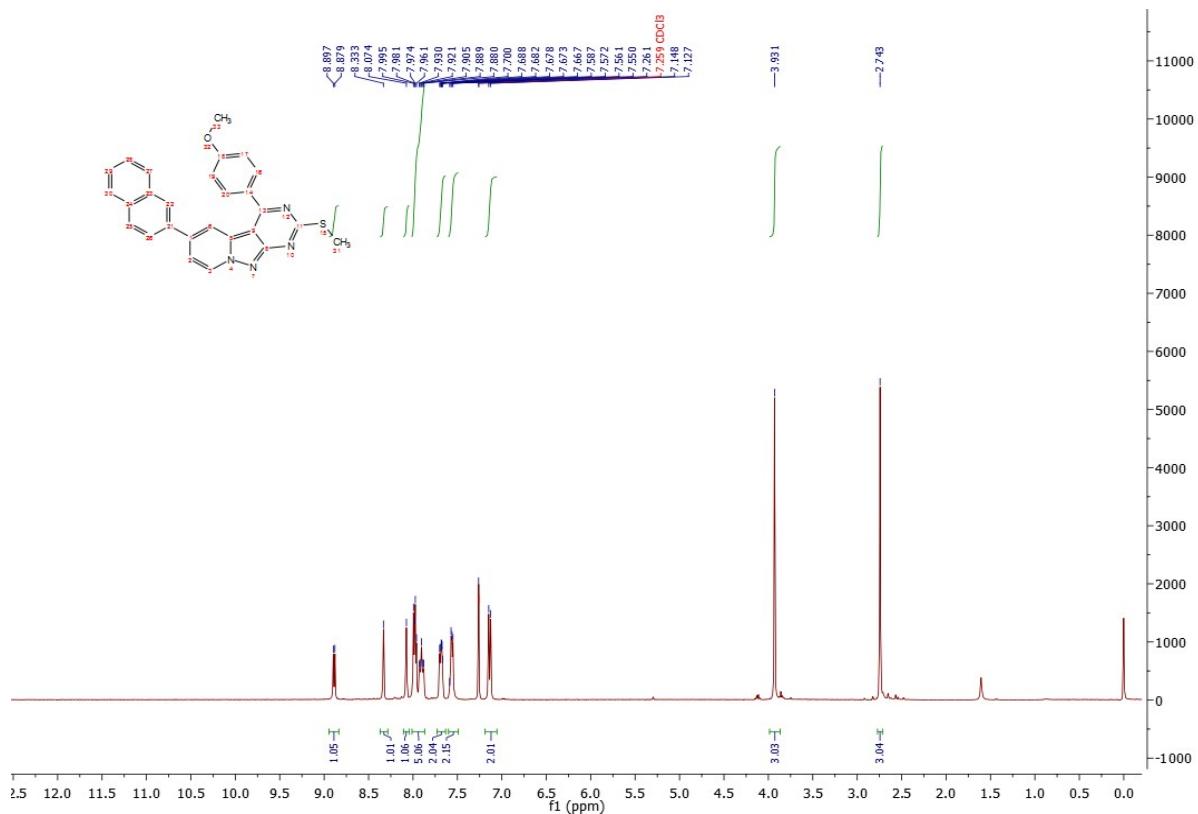


¹³C NMR (101 MHz, CDCl₃).

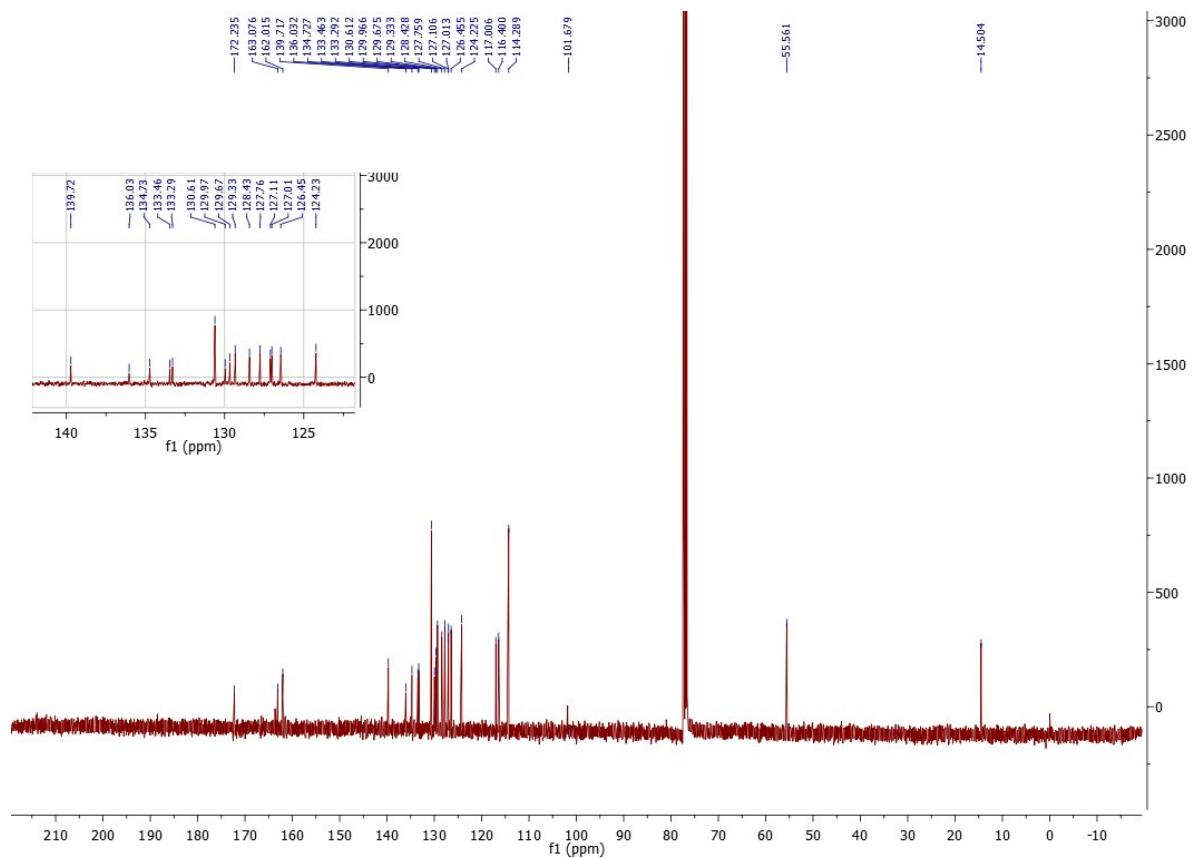


4-(4-Methoxyphenyl)-2-(methylthio)-6-(naphthalen-2-yl)-3,4-dihydropyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidine 22

^1H NMR (400 MHz, CDCl_3).

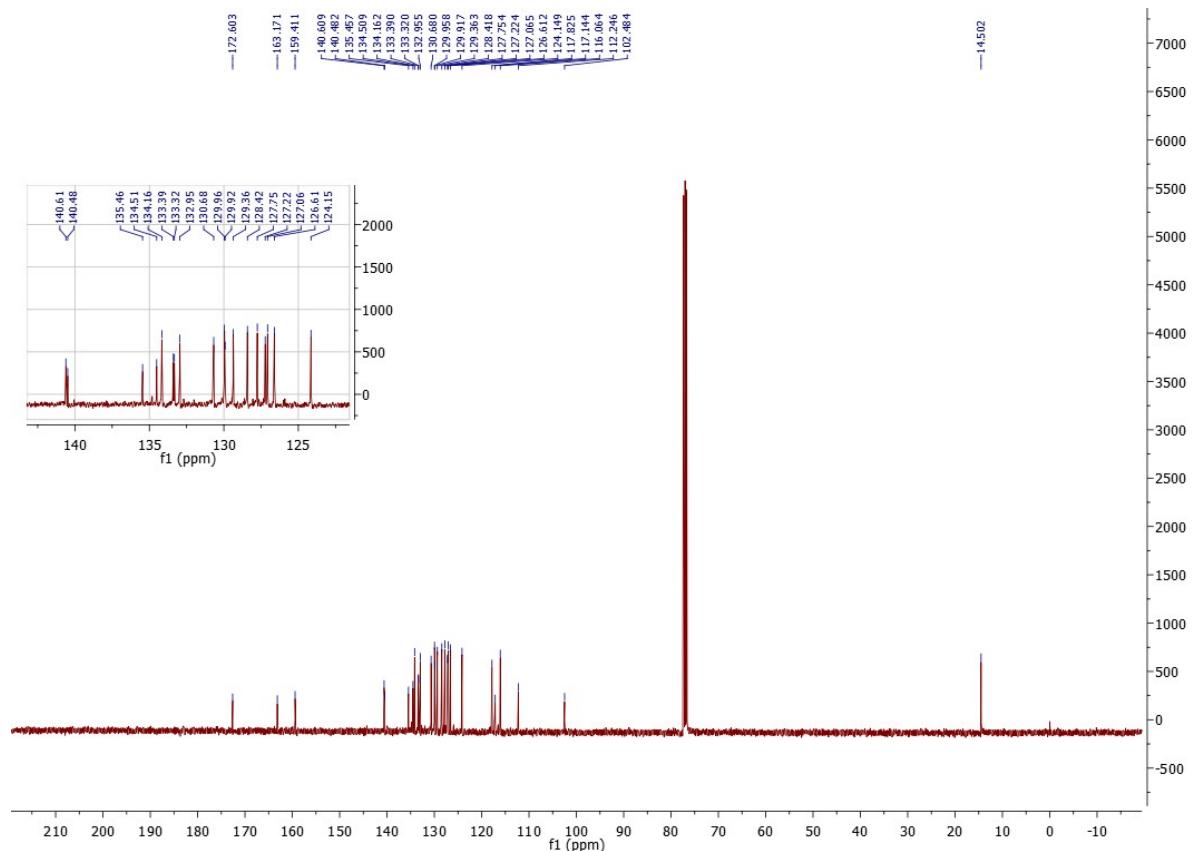
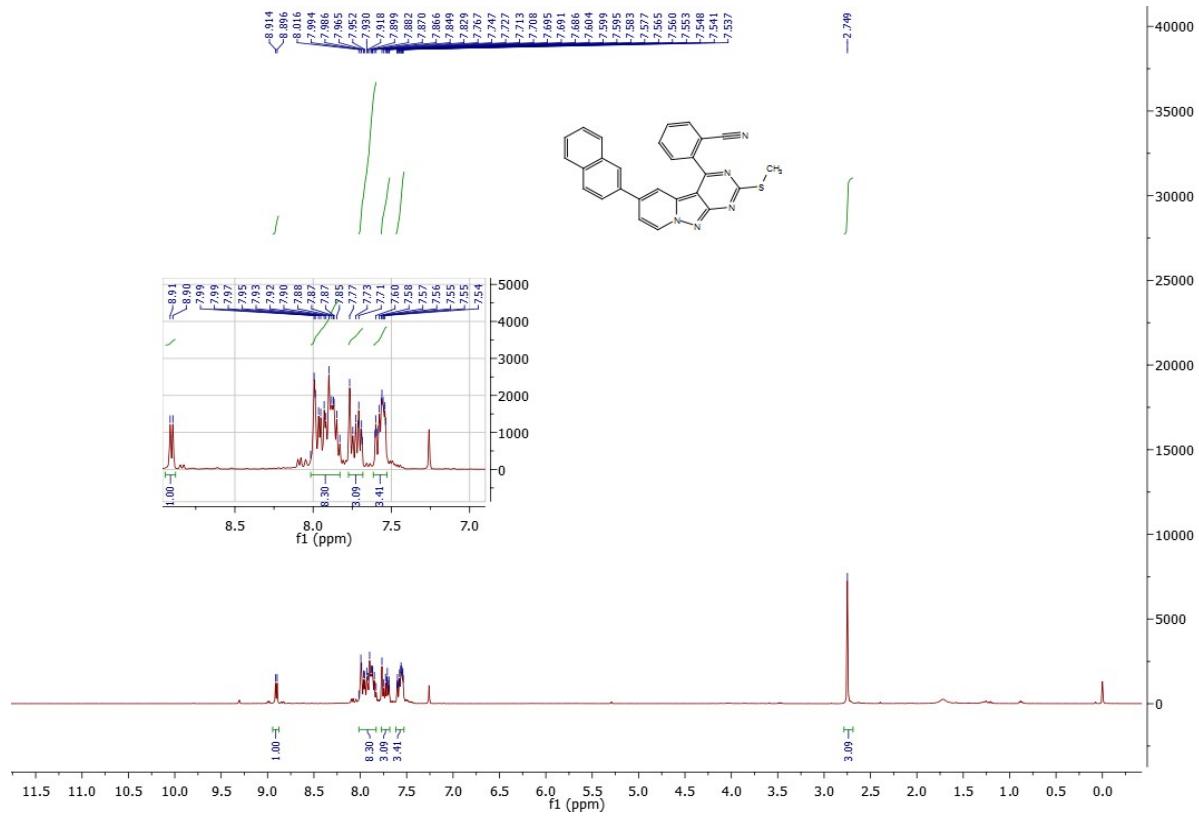


^{13}C NMR (101 MHz, CDCl_3).



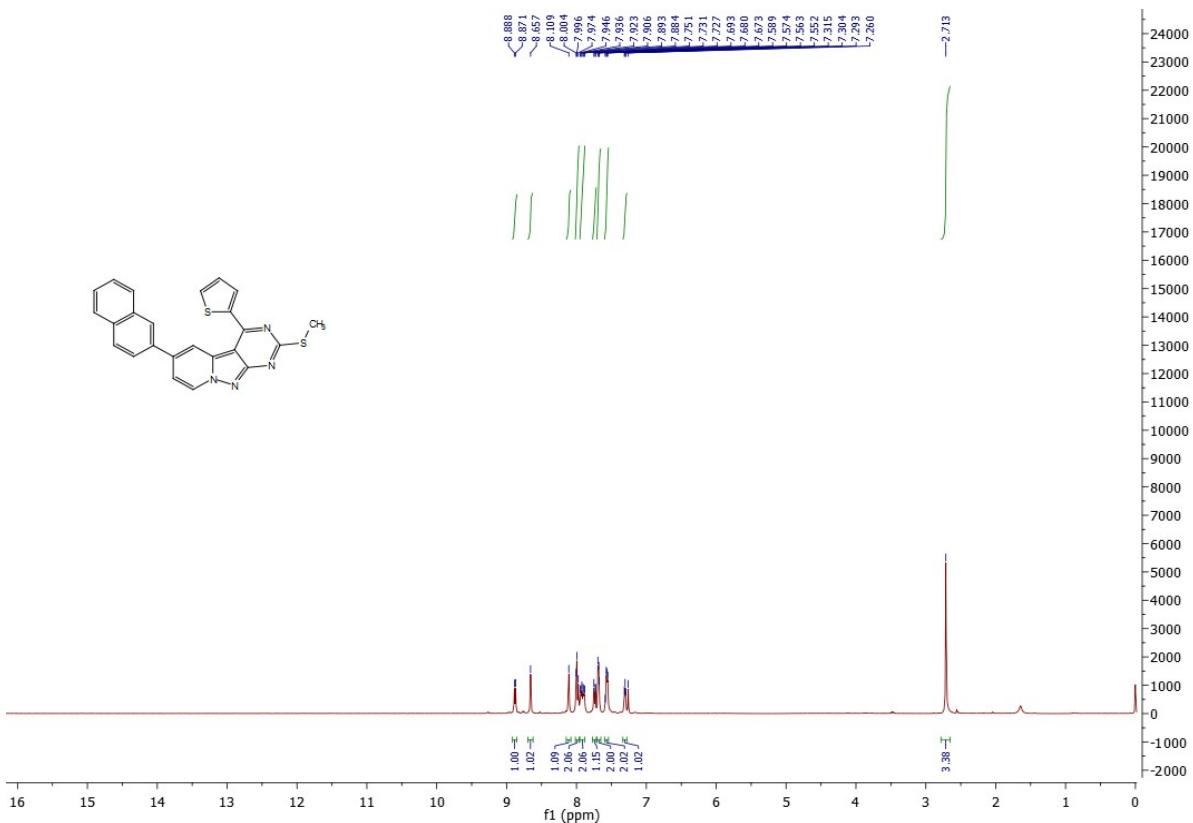
2-(2-(methylthio)-6-(naphthalen-2-yl)pyrido[1',2':1,5]pyrimidin-4-yl)benzonitrile 23

^1H NMR (400 MHz, CDCl_3).

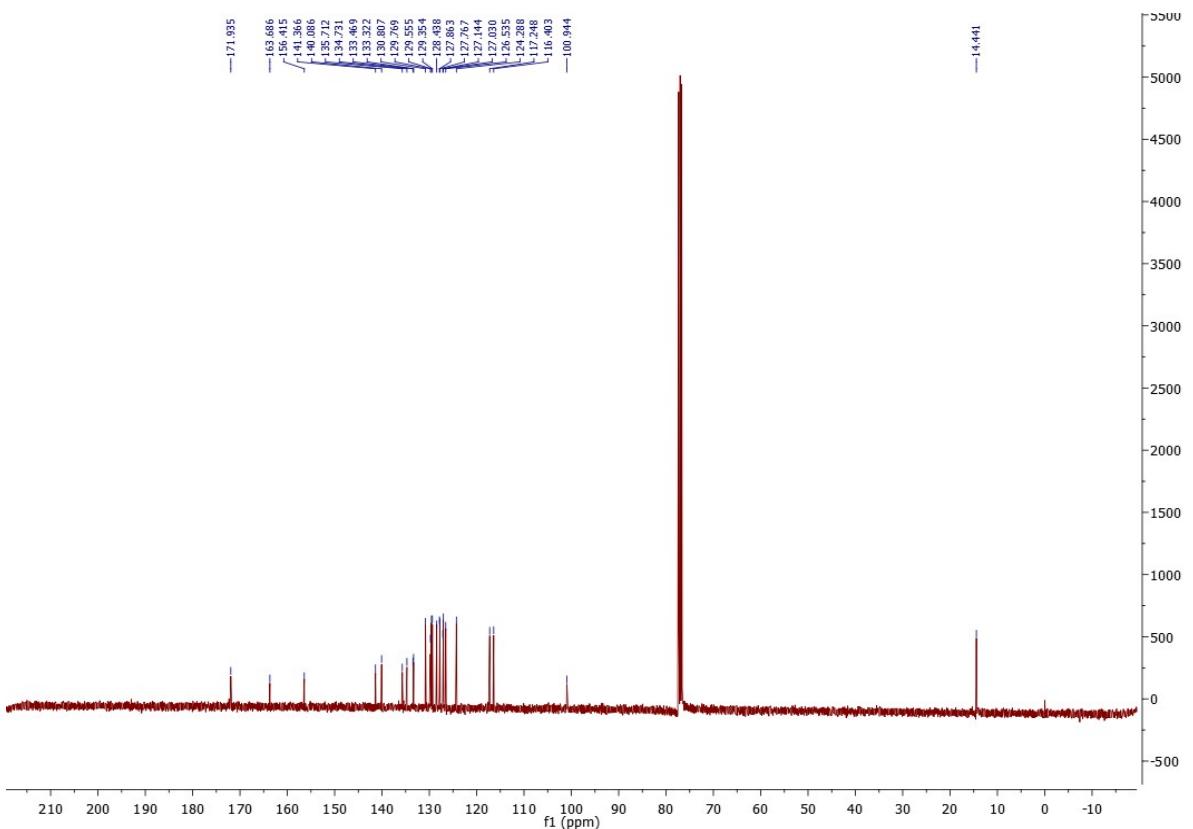


2-(Methylthio)-6-(naphthalen-2-yl)-4-(thiophen-2-yl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidine 24

¹H NMR (400 MHz, CDCl₃).

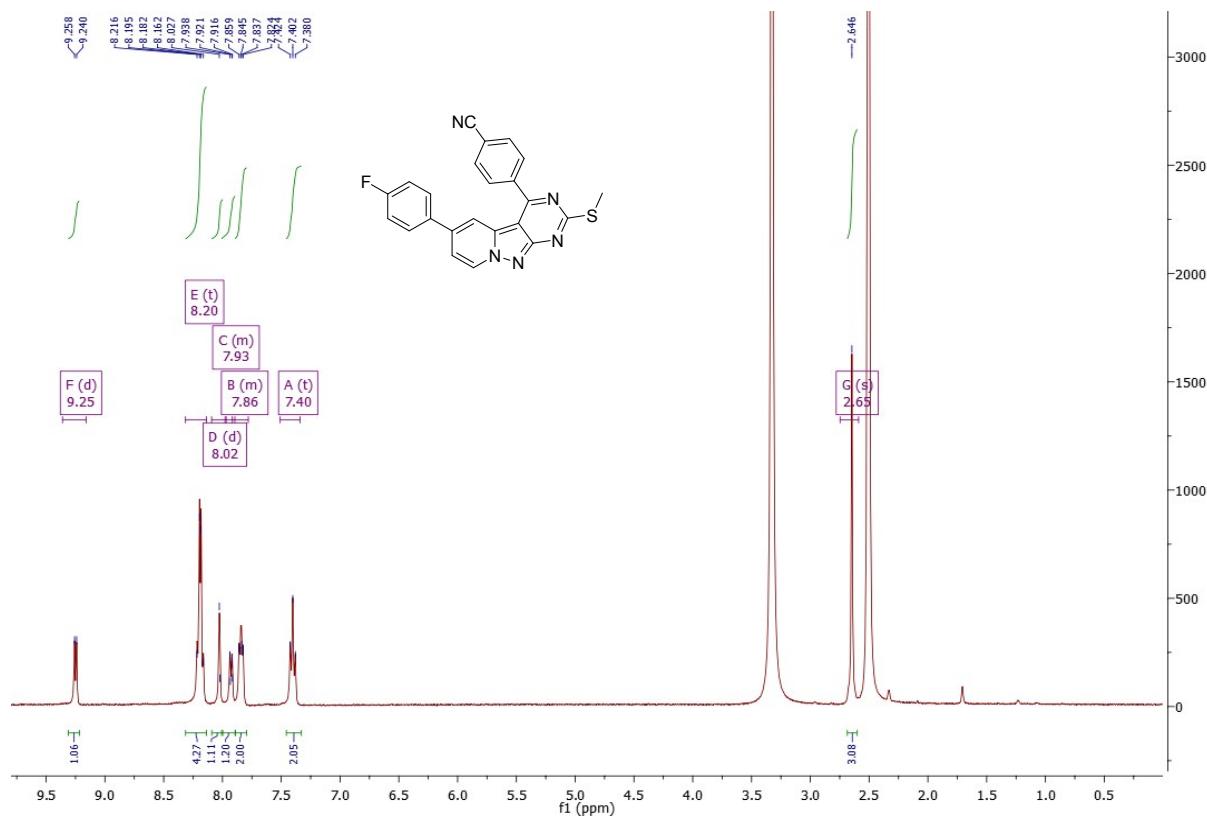


¹³C NMR (101 MHz, CDCl₃).

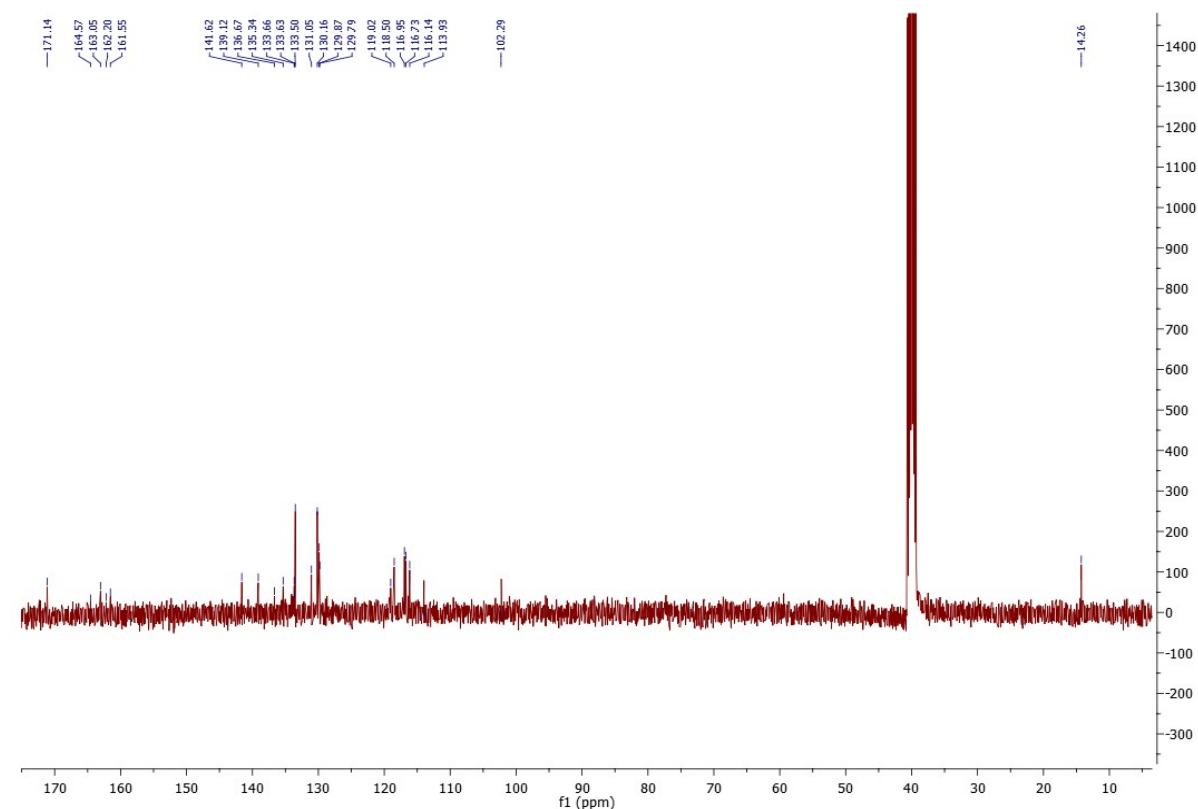


4-(4-fluorophenyl)-2-(methylthio)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-4-yl)benzonitrile 25

^1H NMR (400 MHz, DMSO- d_6).

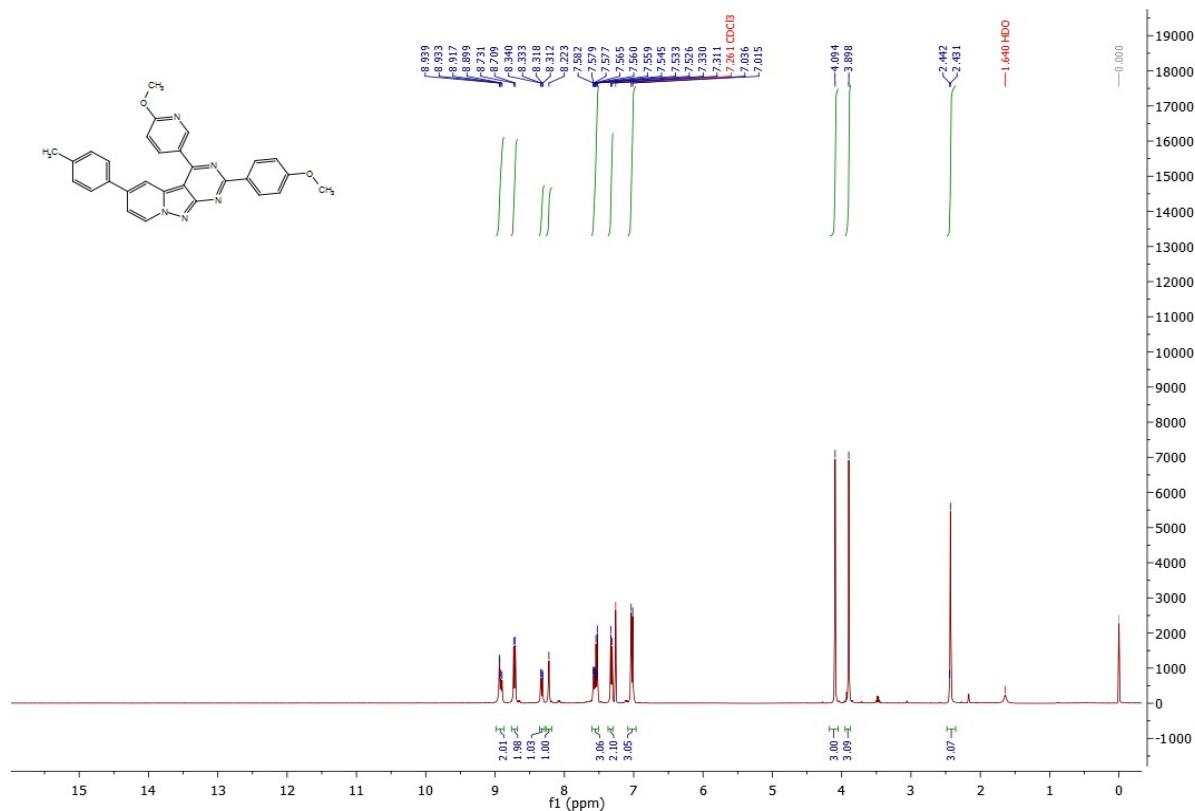


^{13}C NMR (101 MHz, DMSO- d_6).

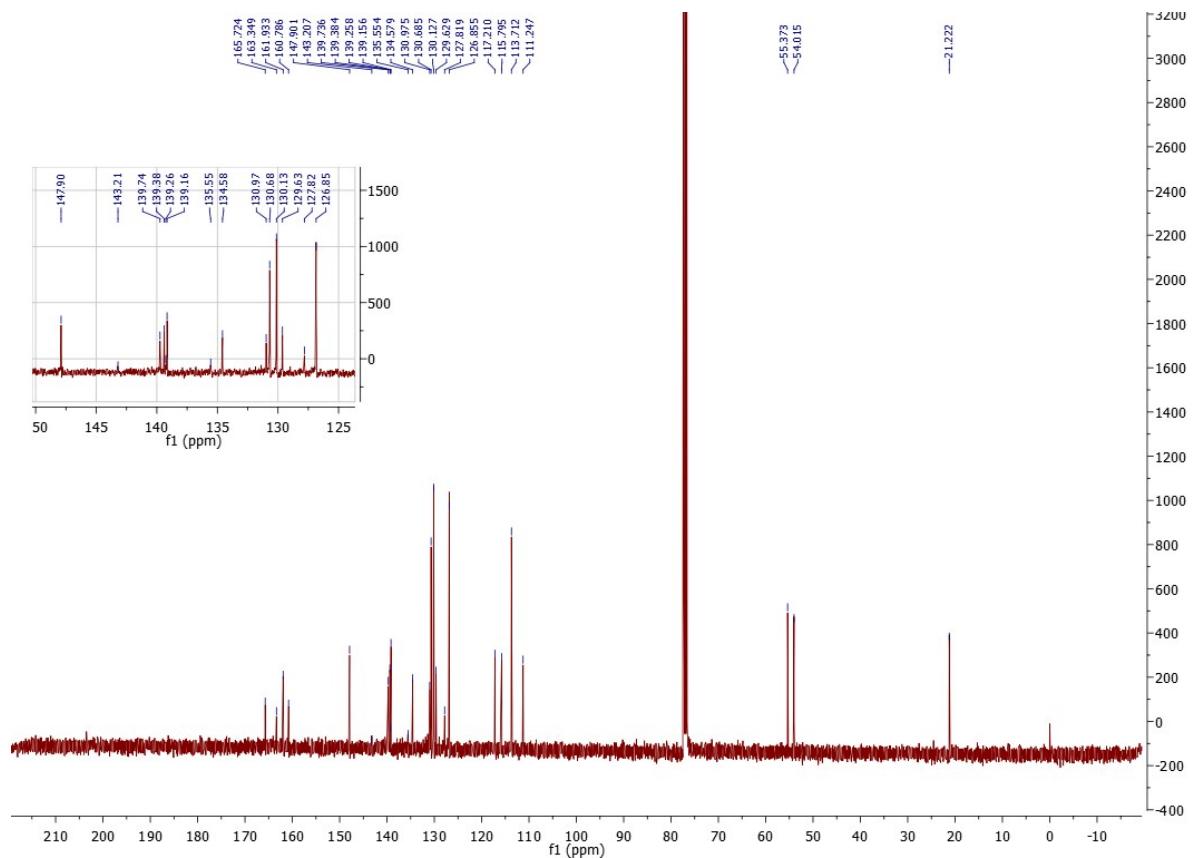


2-(4-methoxyphenyl)-4-(6-methoxypyridin-3-yl)-6-(*p*-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-*d*]pyrimidine 26

¹H NMR (400 MHz, CDCl₃).

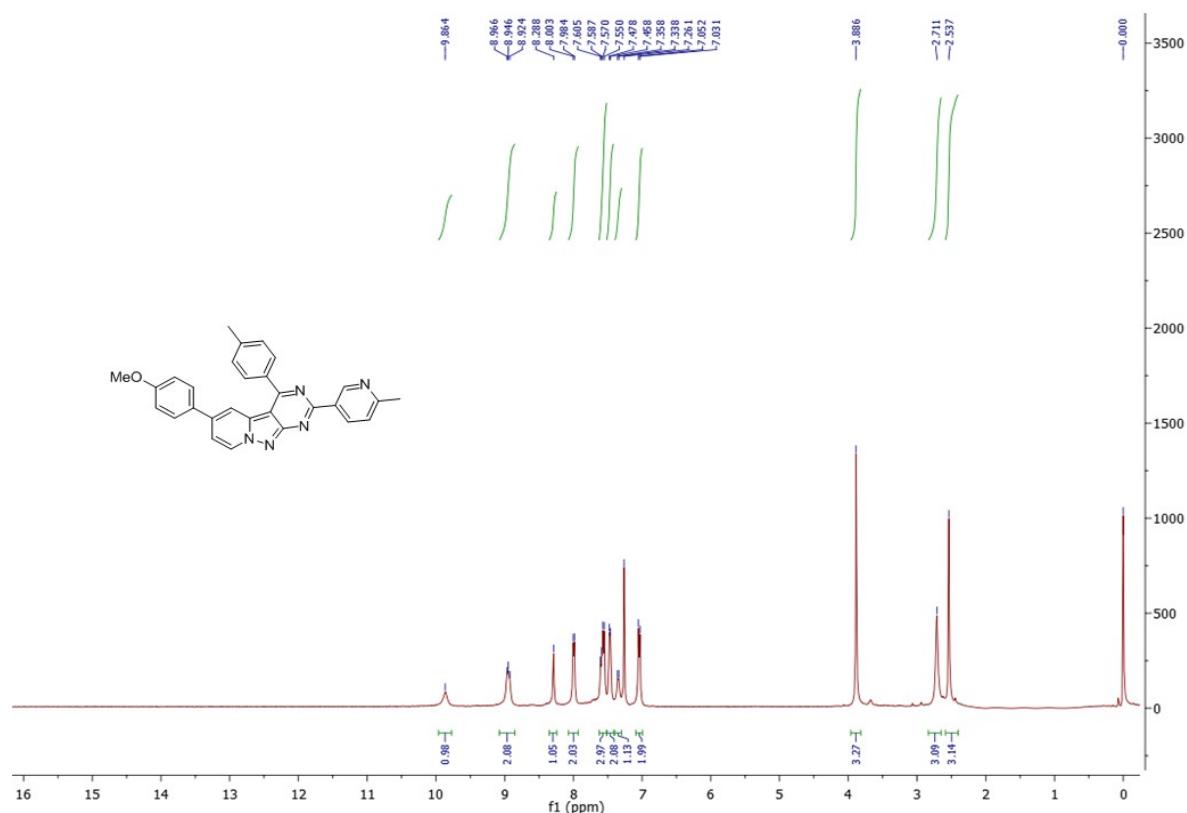


¹³C NMR (101 MHz, CDCl₃).

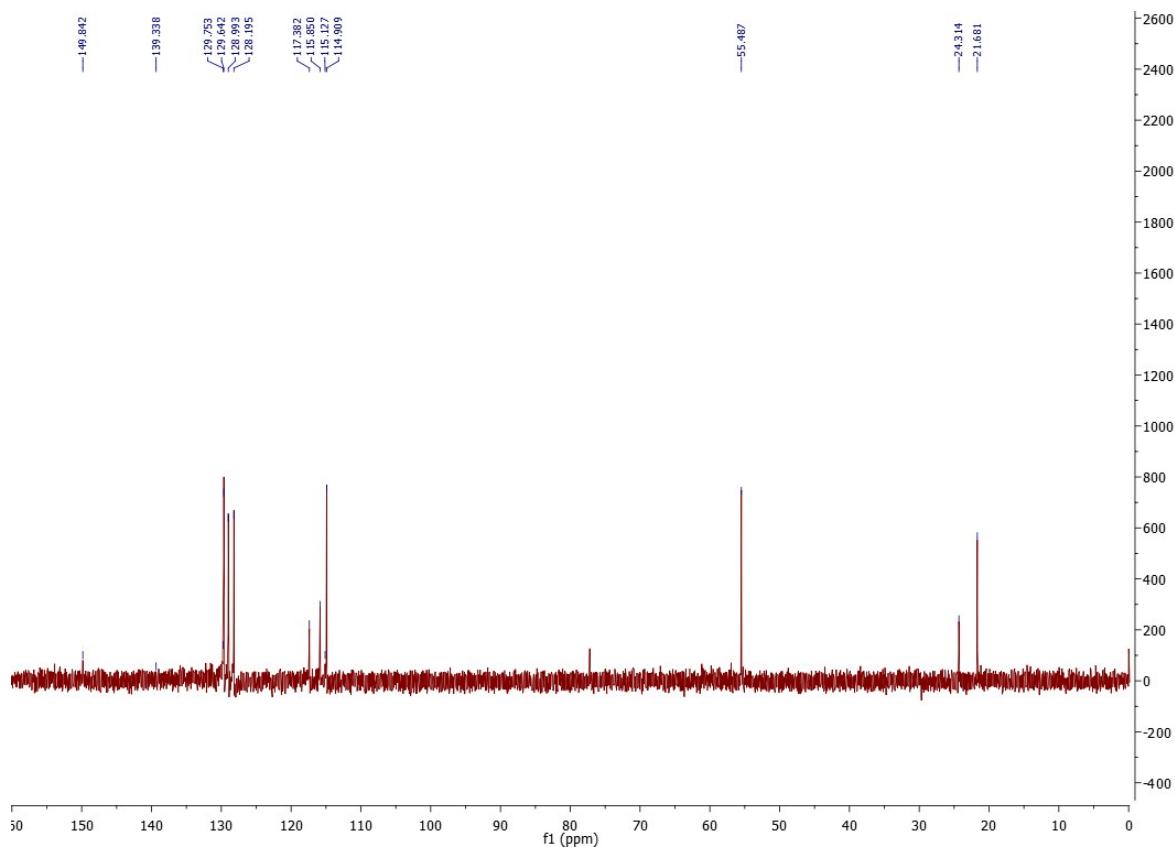


6-(4-Methoxyphenyl)-2-(6-methylpyridin-3-yl)-4-(p-tolyl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidine 27

¹H NMR (400 MHz, CDCl₃).



¹³C NMR (101 MHz, DMSO-d₆).



4-(4-Methoxyphenyl)-6-(naphthalen-2-yl)pyrido[1',2':1,5]pyrazolo[3,4-d]pyrimidin-2-yl)benzonitrile 28.

¹H NMR (250 MHz, DMSO-*d*₆).

