

Supporting Information

Synthesis of Quinazolin-4(3H)-ones via the Reaction of 2-Halobenzamides with Nitriles

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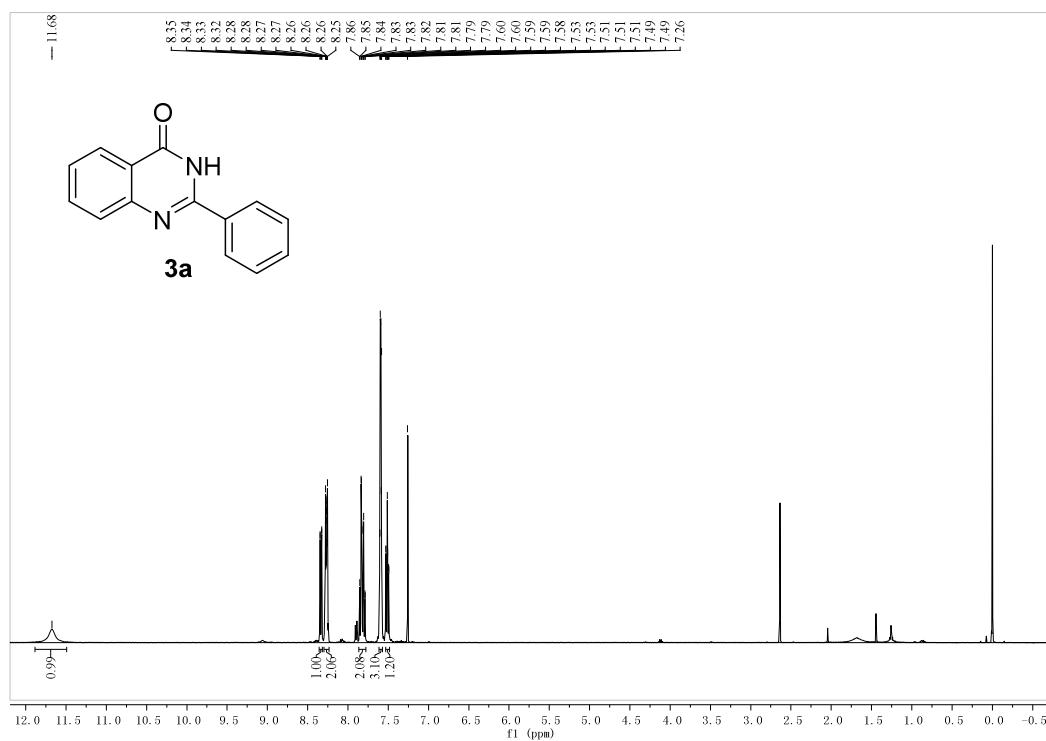
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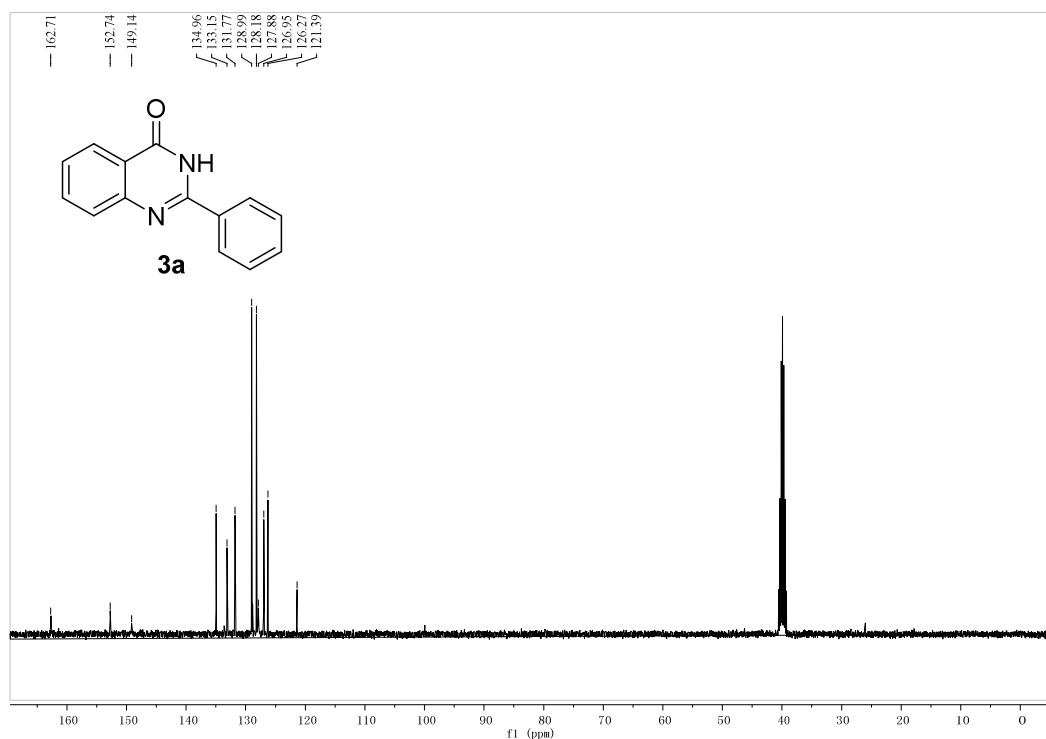
Copies of NMR spectra for products

2-phenylquinazolin-4(3*H*)-one (3a)

¹H NMR, 400 MHz, CDCl₃

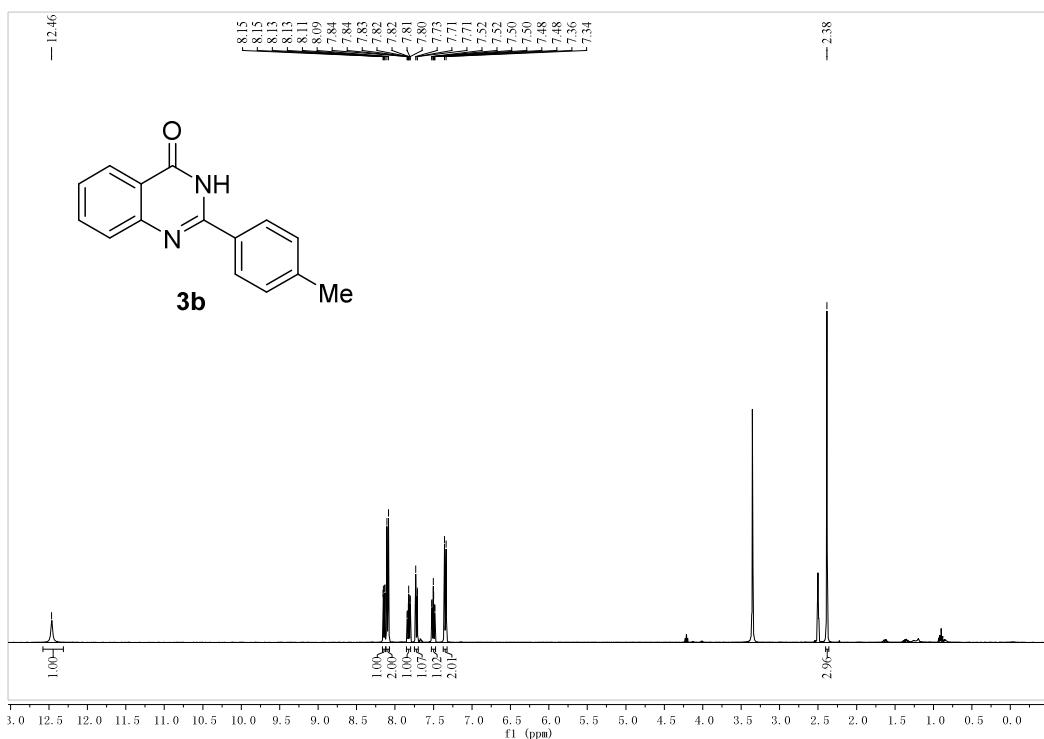


¹³C NMR, 100 MHz, DMSO-d₆

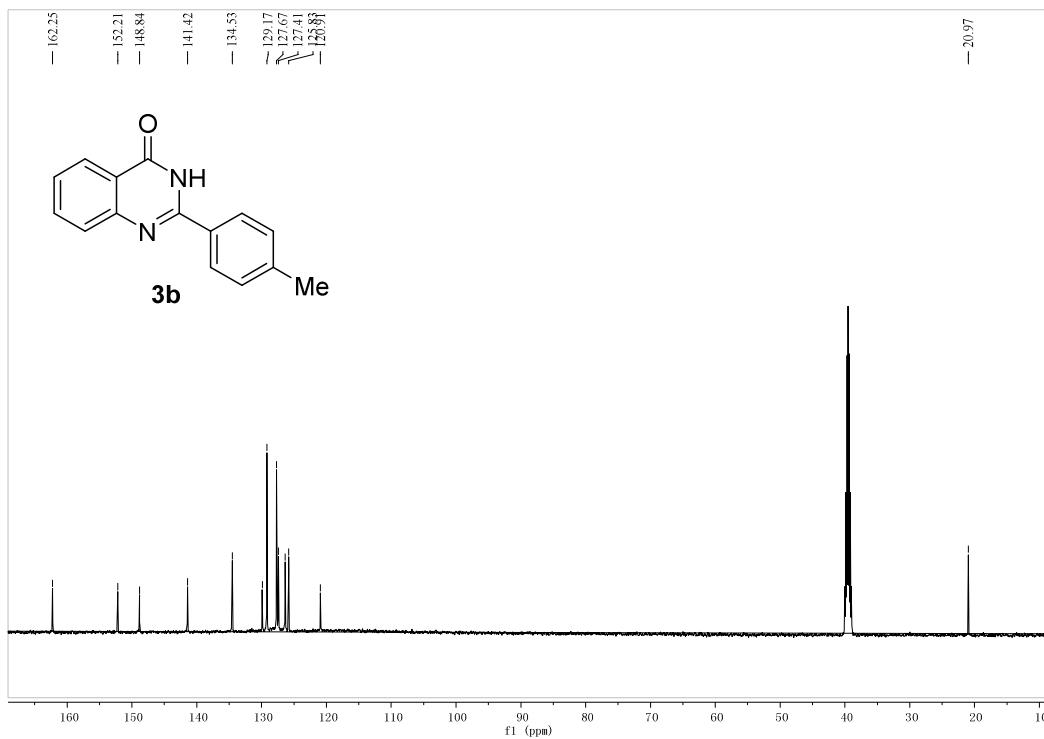


2-(4-Methylphenyl)quinazolin-4(3H)-one (3b)

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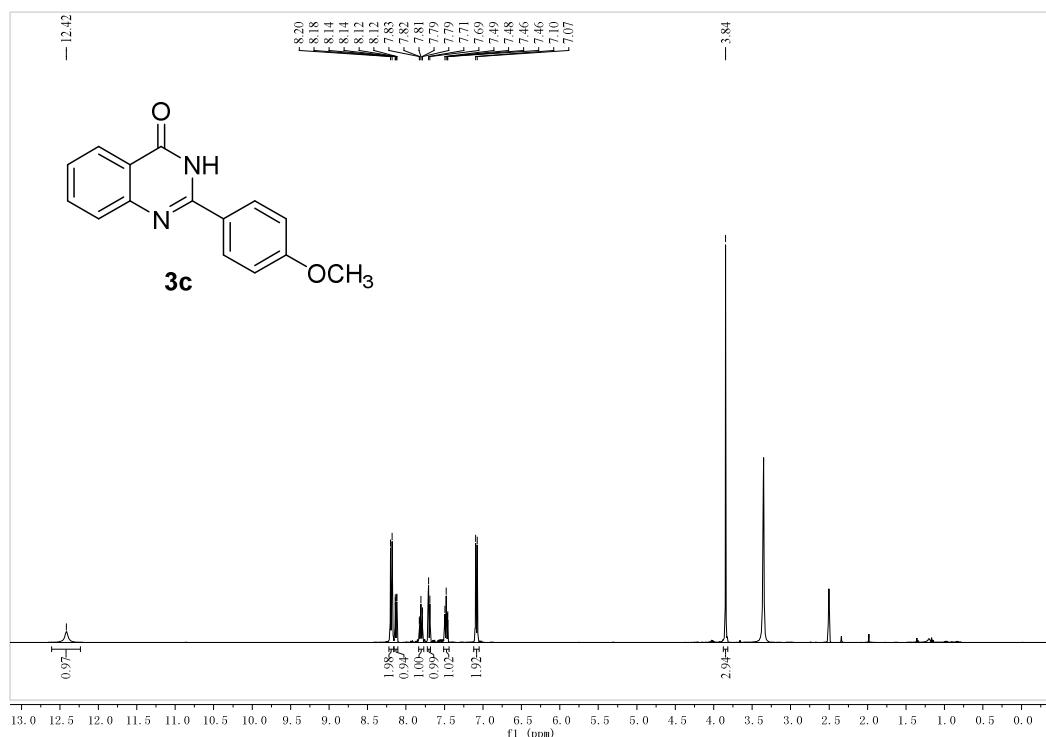


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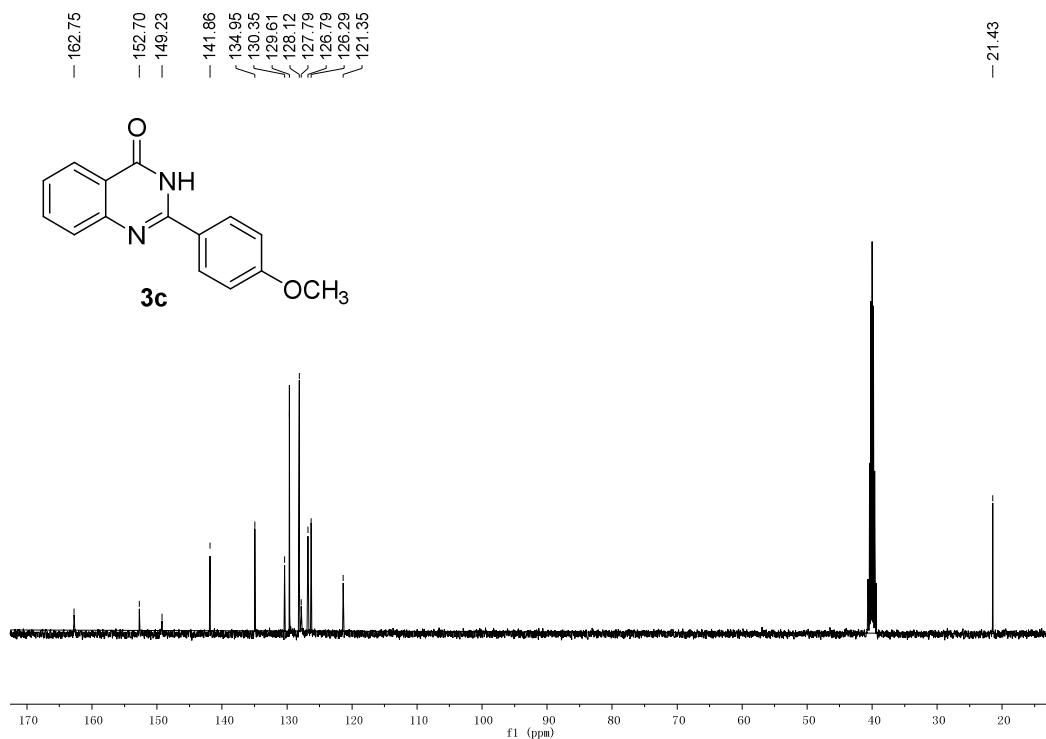


2-(4-methoxyphenyl)quinazolin-4(3*H*)-one (3c)

¹H NMR, 400 MHz, DMSO-d₆

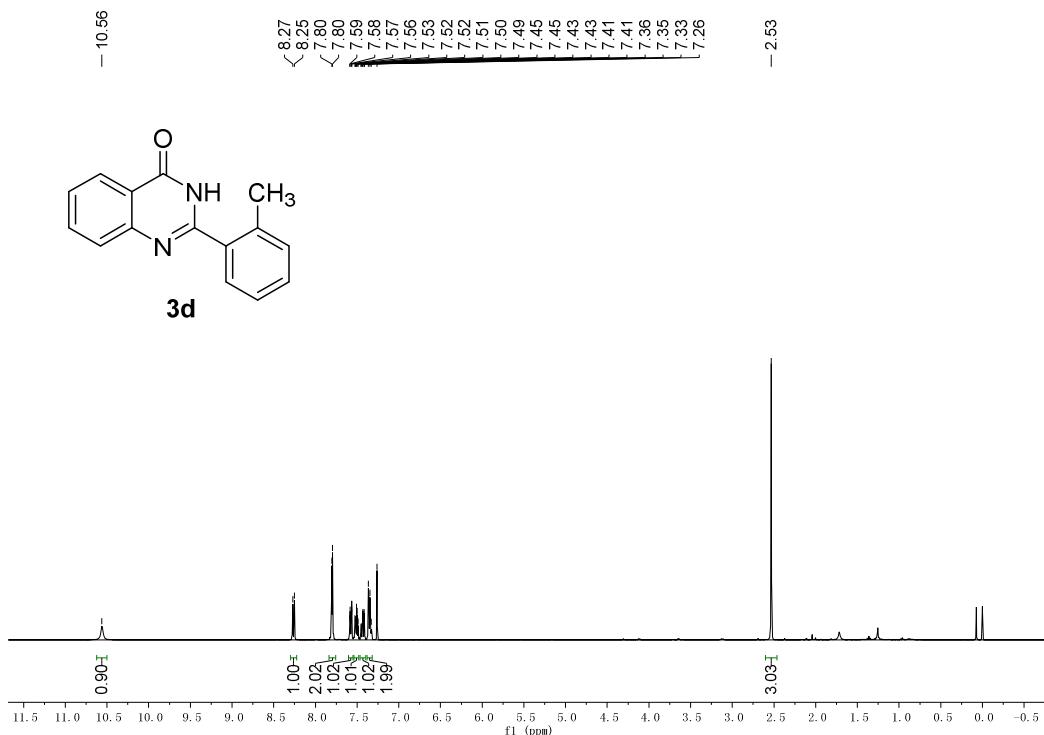


¹³C NMR, 100 MHz, DMSO-d₆

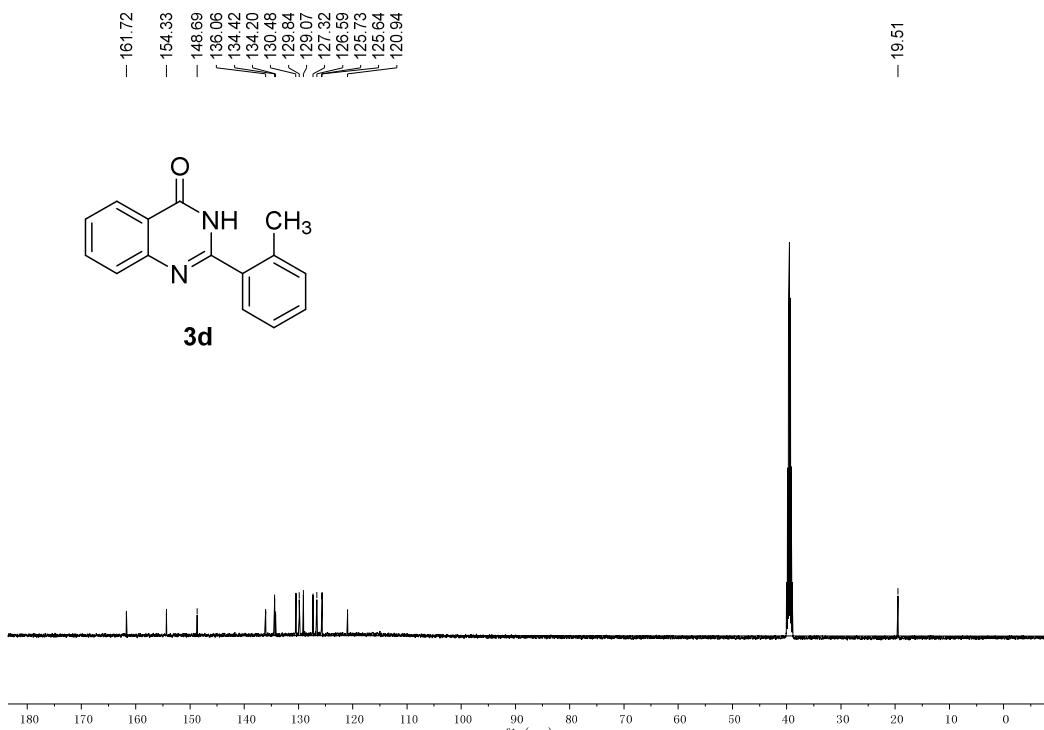


2-(o-tolyl)quinazolin-4(3H)-one (3d)

¹H NMR, 400 MHz, CDCl₃

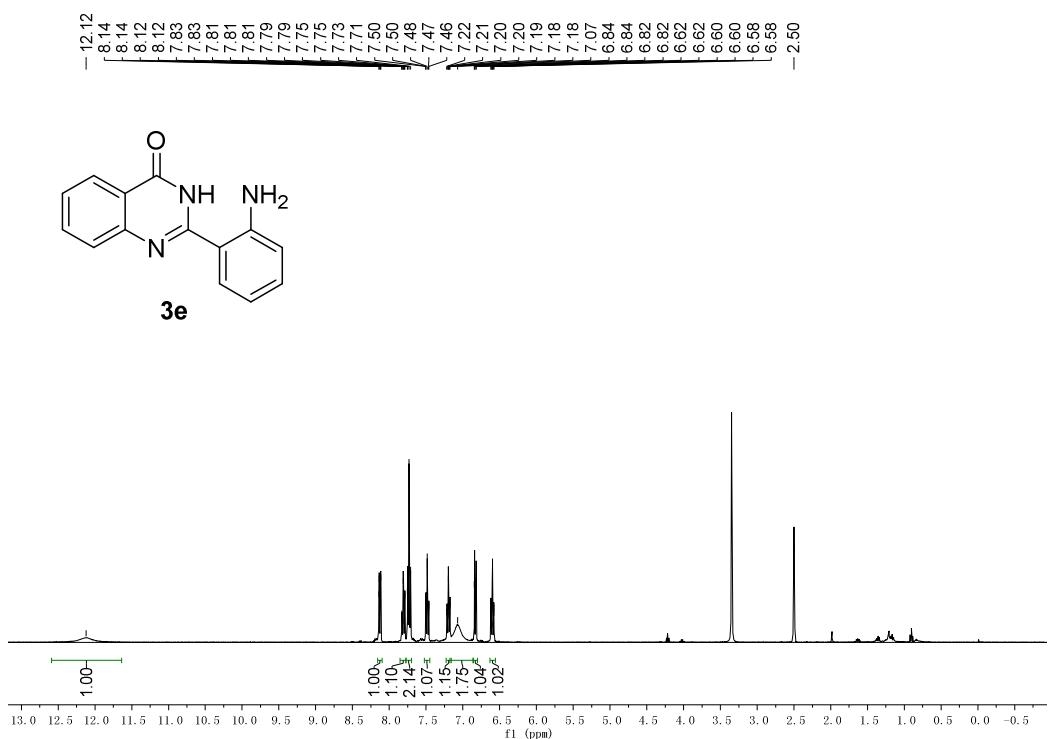


¹³C NMR, 100 MHz, DMSO-d₆

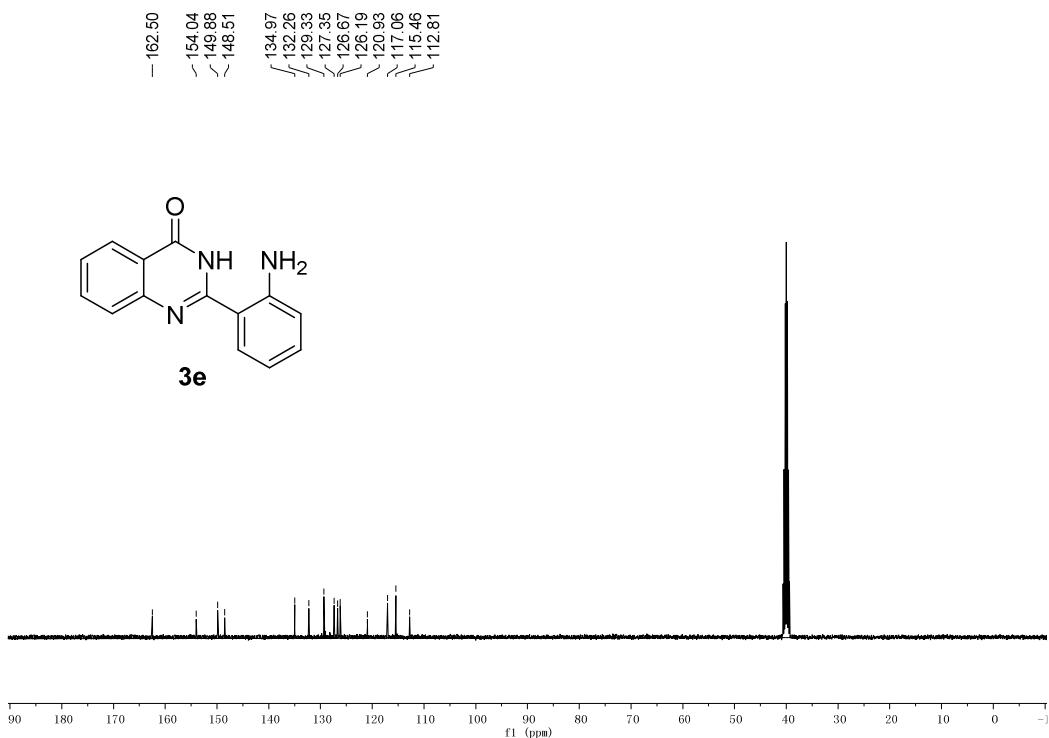


2-(2-aminophenyl)quinazolin-4(3*H*)-one (3e**)**

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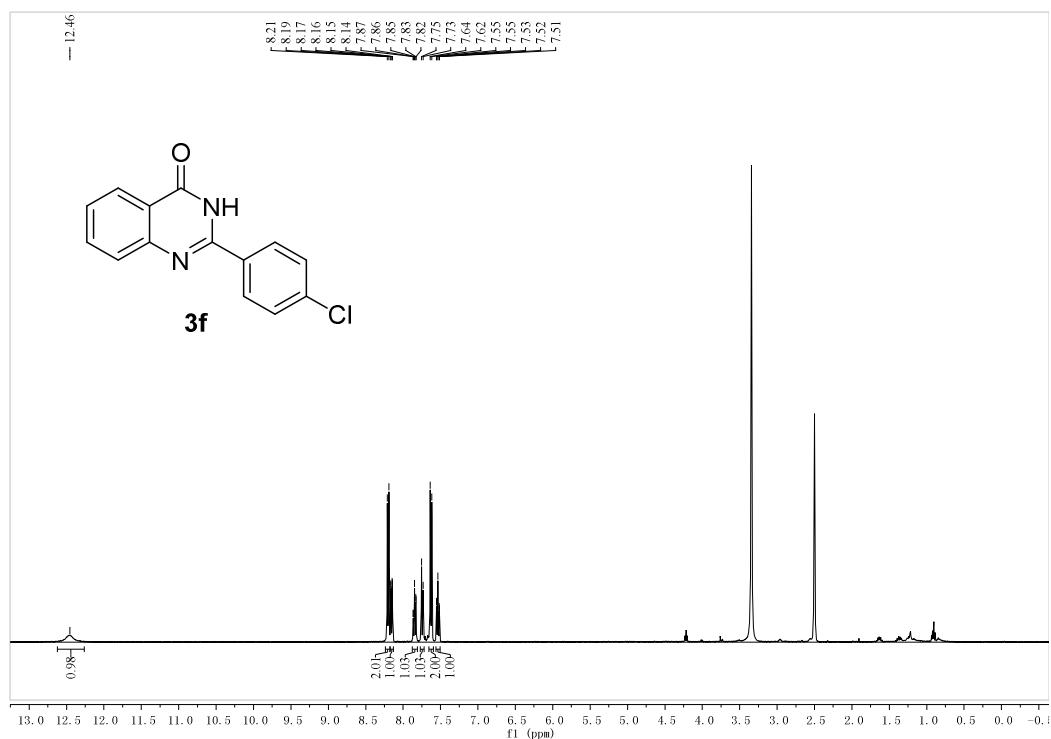


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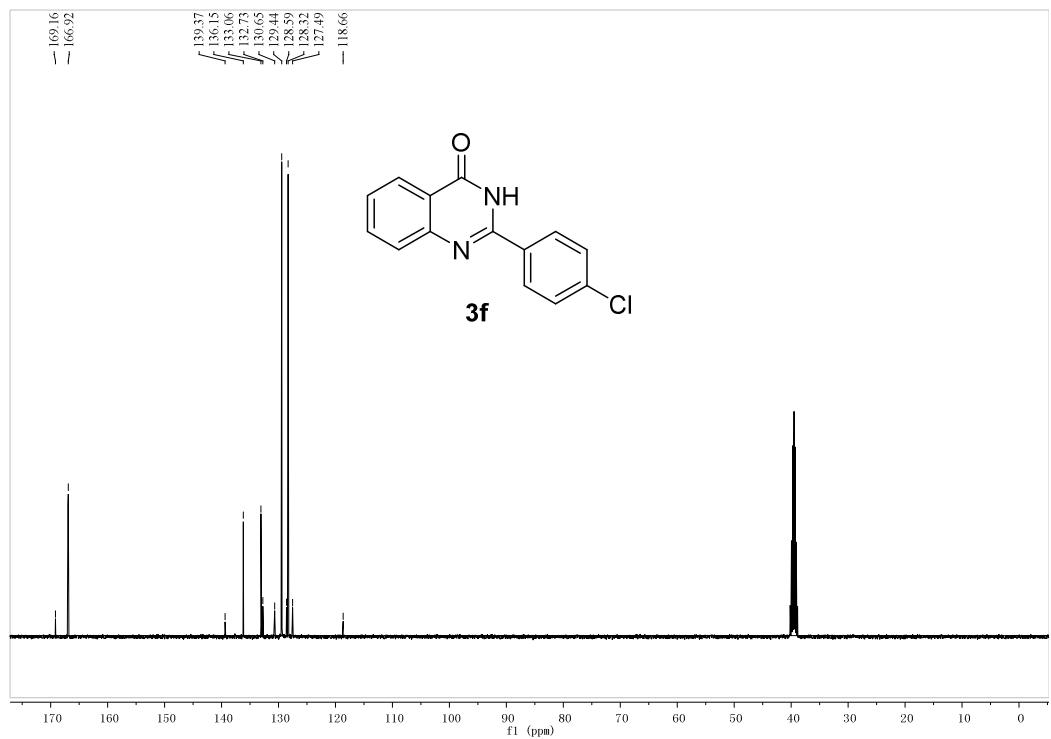


2-(4-chlorophenyl)quinazolin-4(3*H*)-one (3f)

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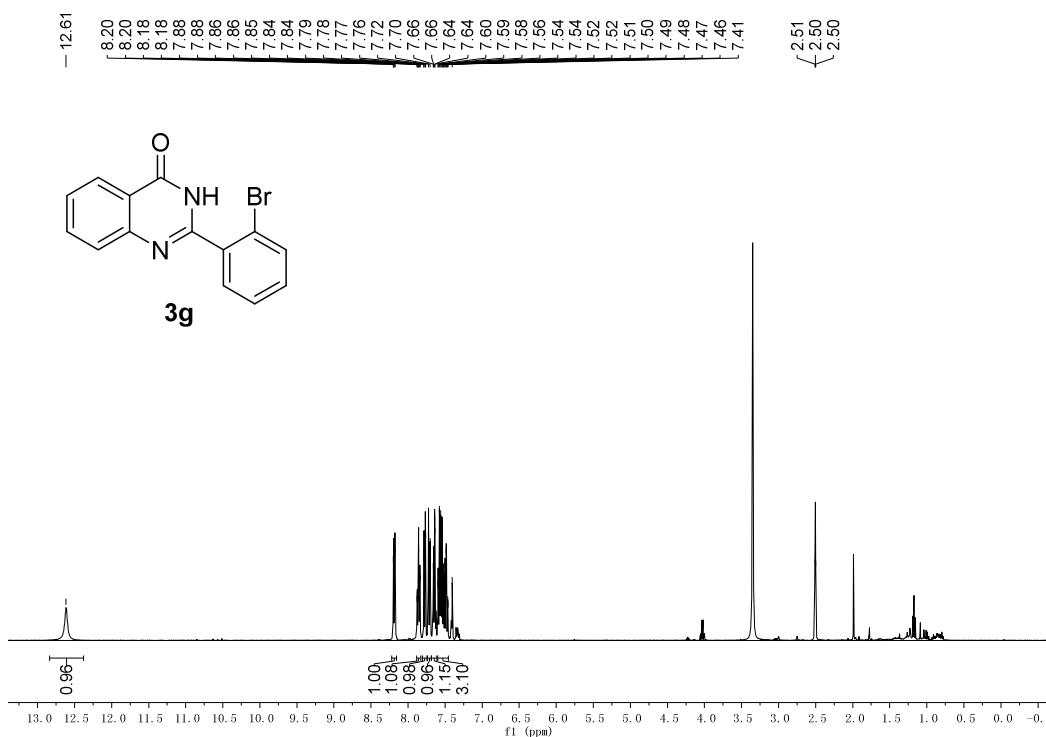


¹³C NMR, 100 MHz, DMSO-d₆

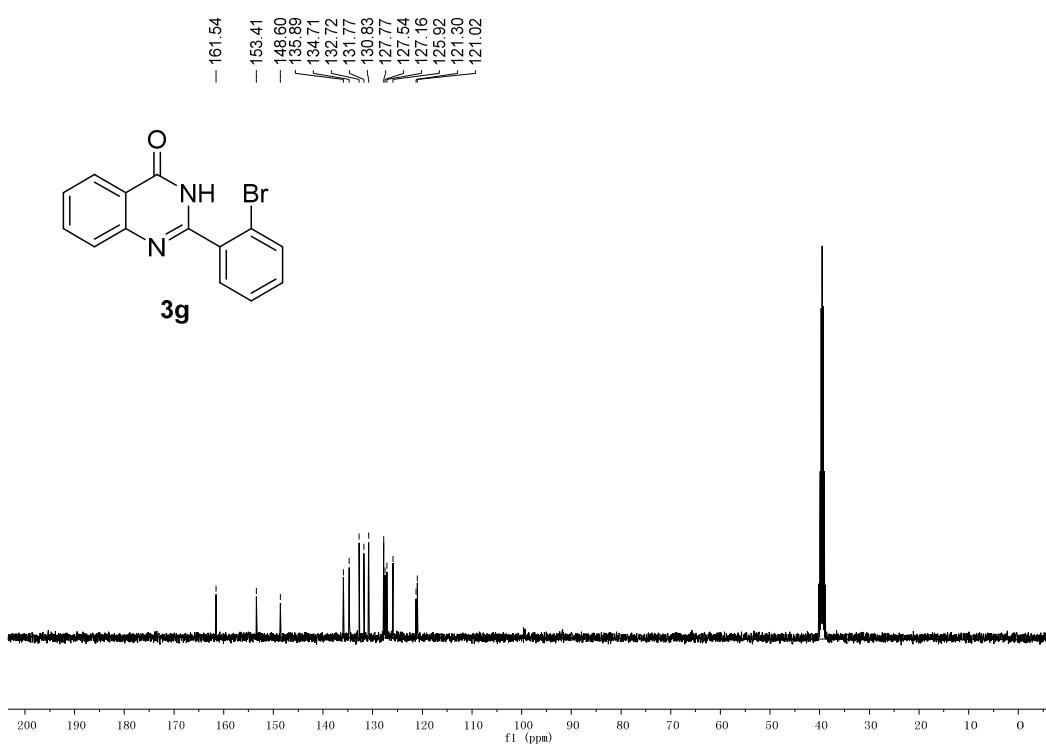


2-(2-bromophenyl)quinazolin-4(3*H*)-one (3g**)**

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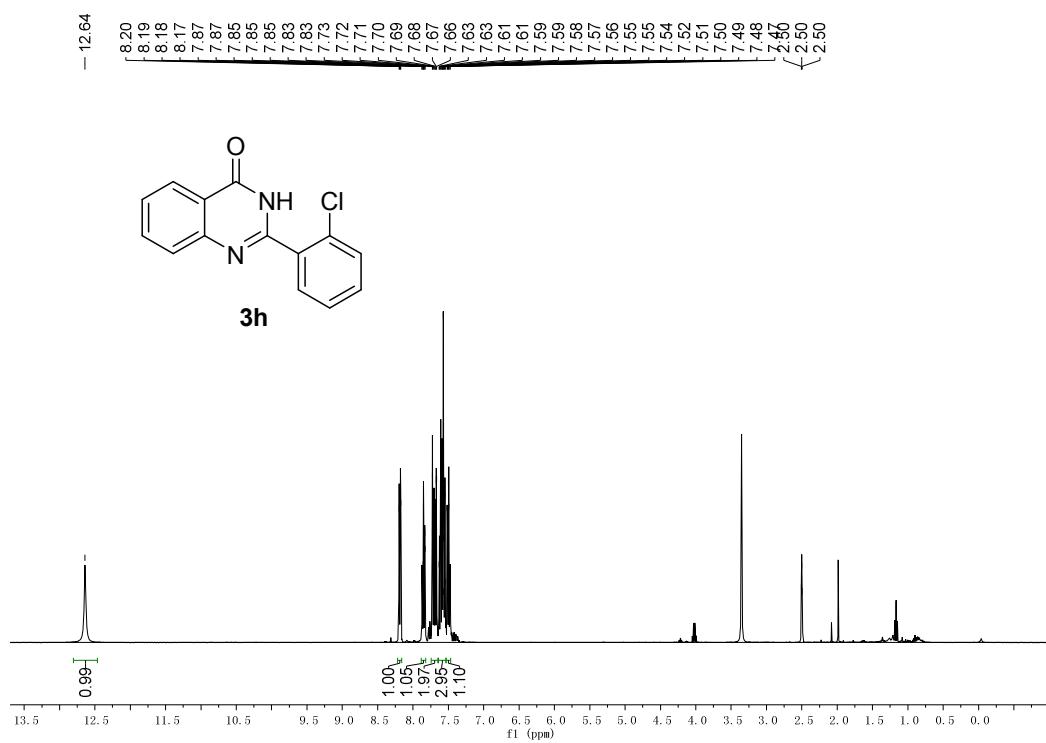


¹³C NMR, 100 MHz, DMSO-d₆

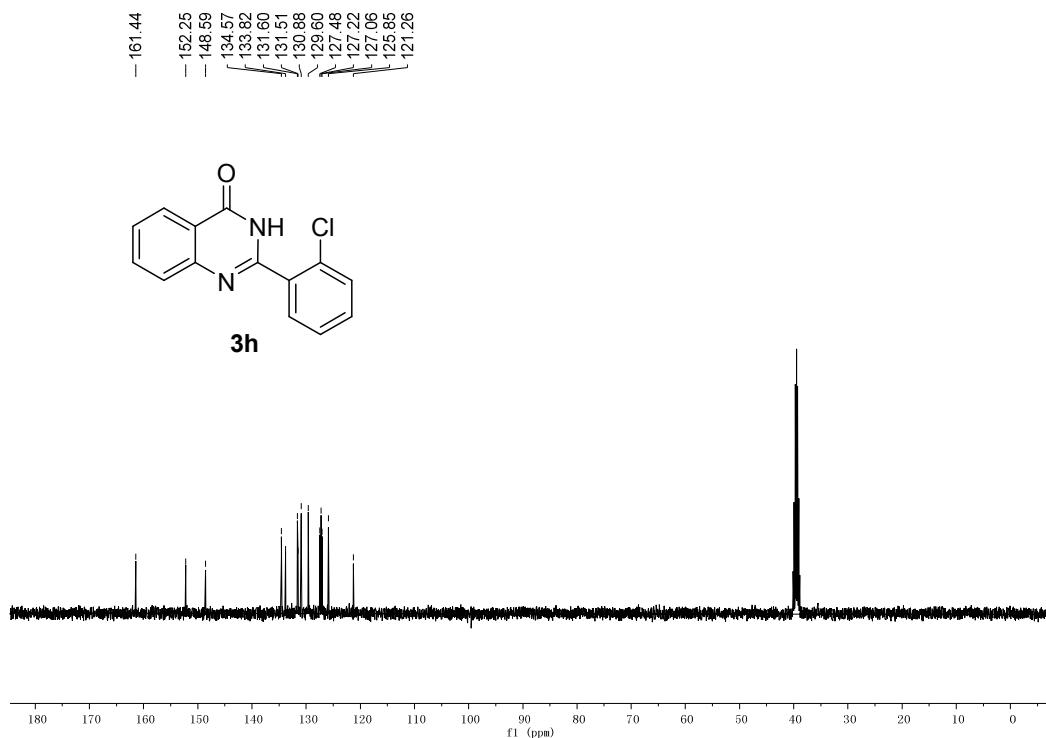


2-(2-chlorophenyl)quinazolin-4(3*H*)-one (3h)

¹H NMR, 400 MHz, DMSO-d₆

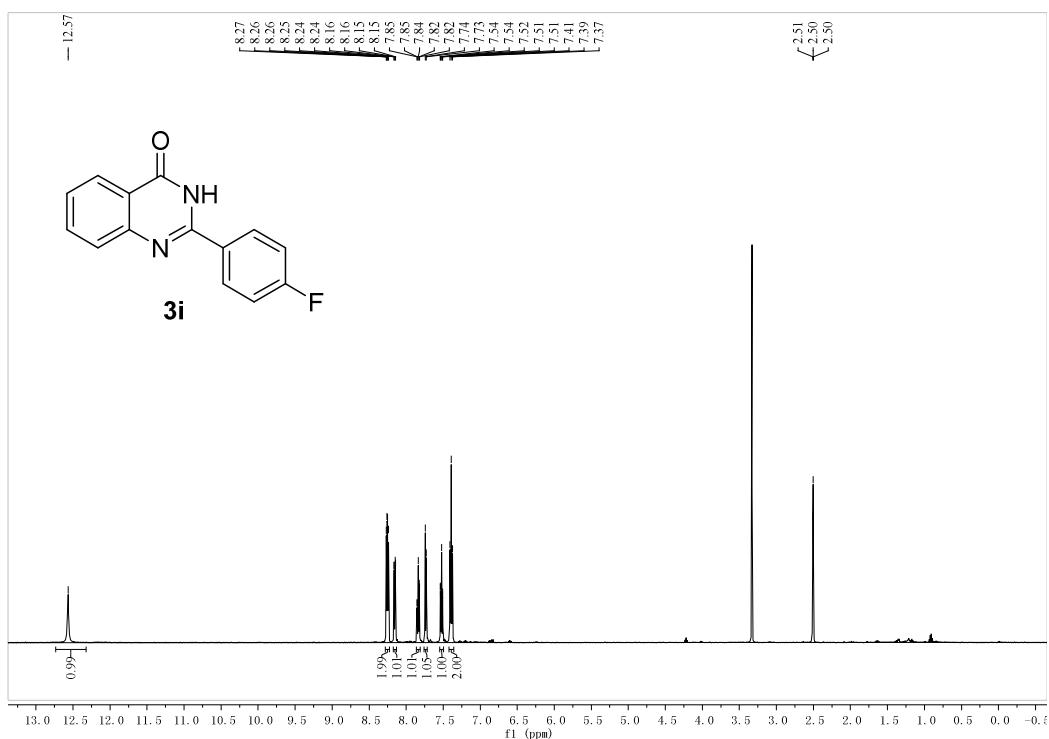


¹³C NMR, 100 MHz, DMSO-d₆

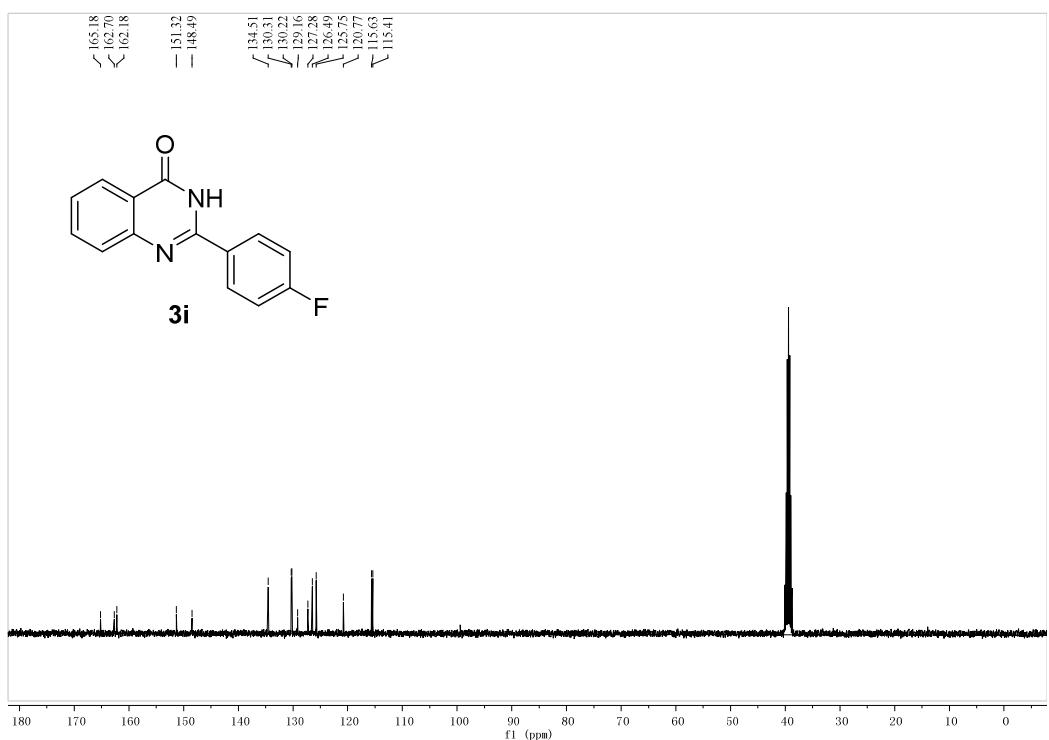


2-(4-fluorophenyl)quinazolin-4(3H)-one(3i)

¹H NMR, 500 MHz, DMSO-d₆

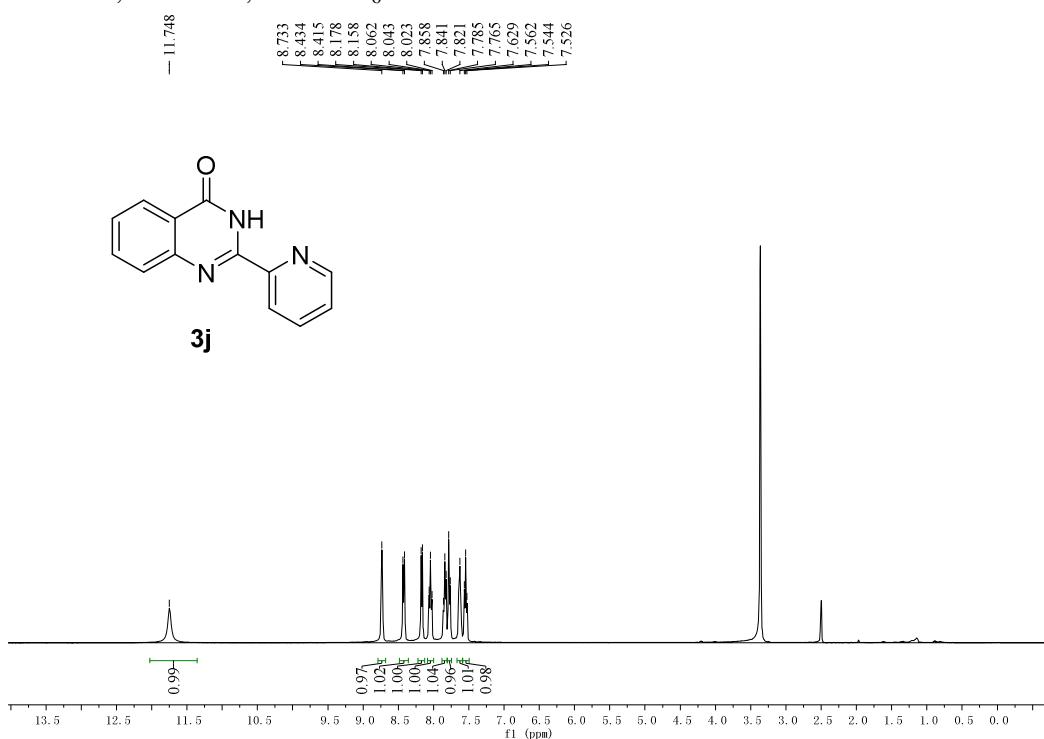


¹³C NMR, 100 MHz, DMSO-d₆

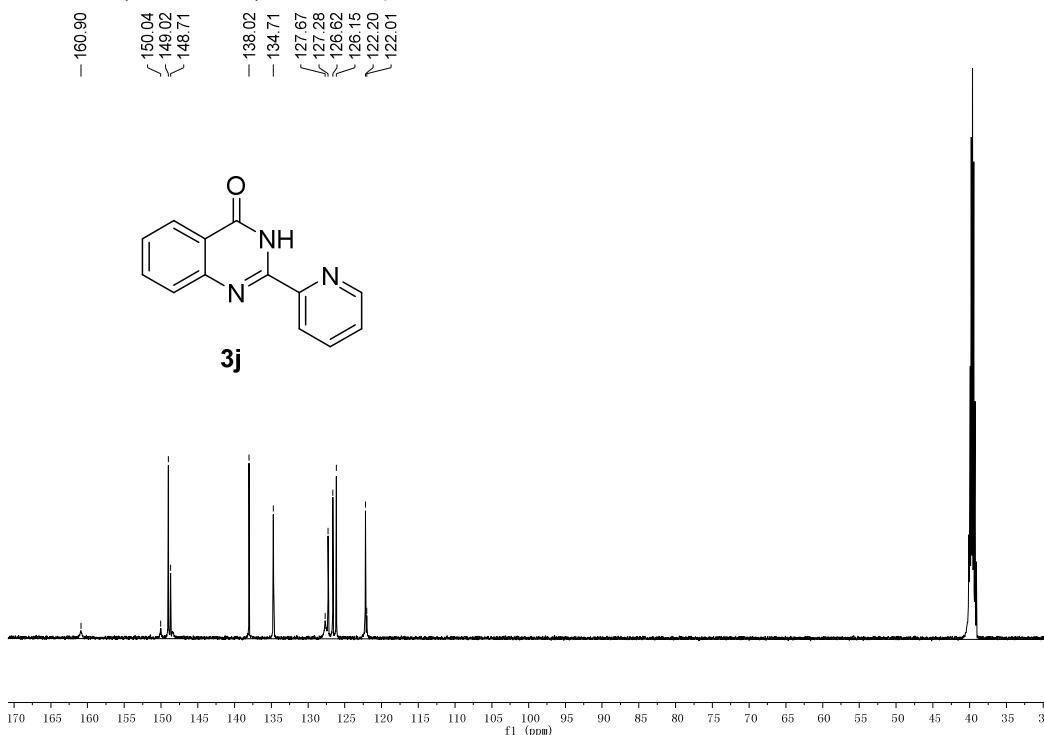


2-(2-pyridyl)quinazoline-4(3*H*)-one (3j**)**

¹H NMR, 400 MHz, DMSO-d₆

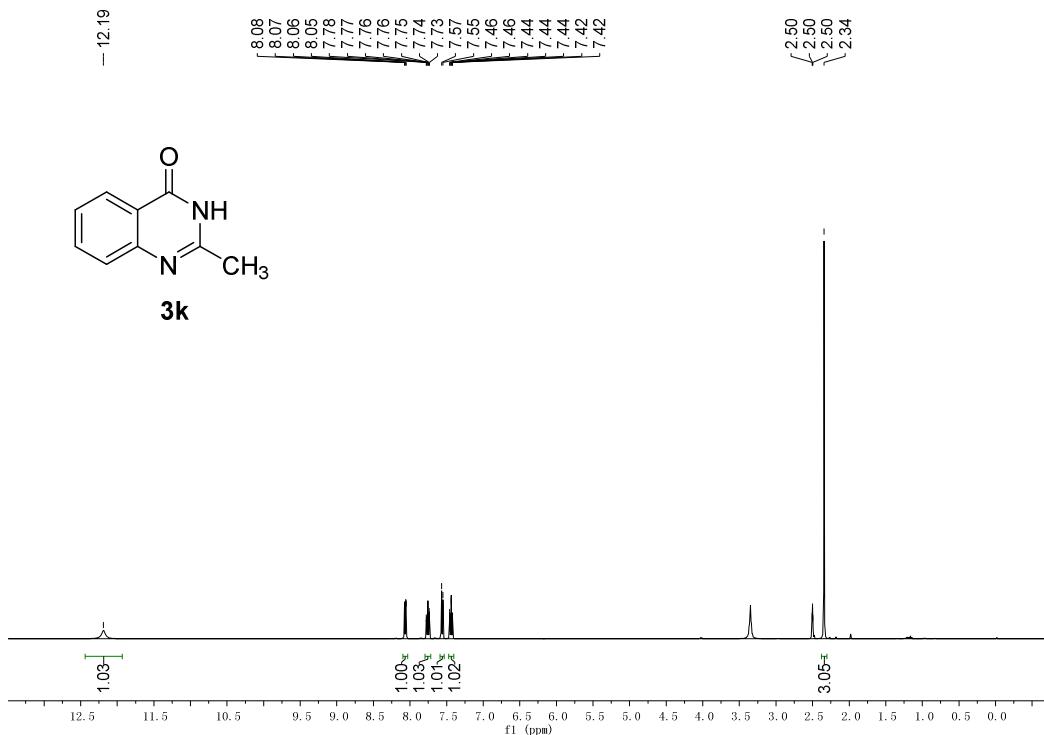


¹³C NMR, 100 MHz, DMSO-d₆

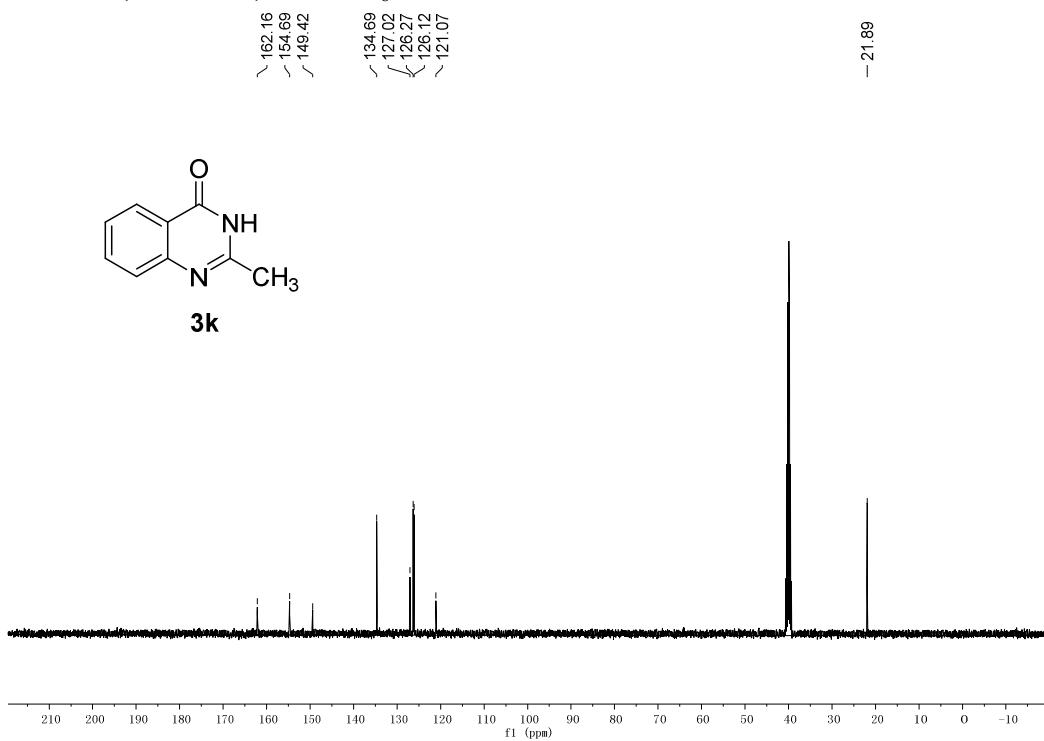


2-methylquinazolin-4(3*H*)-one (3k**)**

¹H NMR, 400 MHz, DMSO-d₆

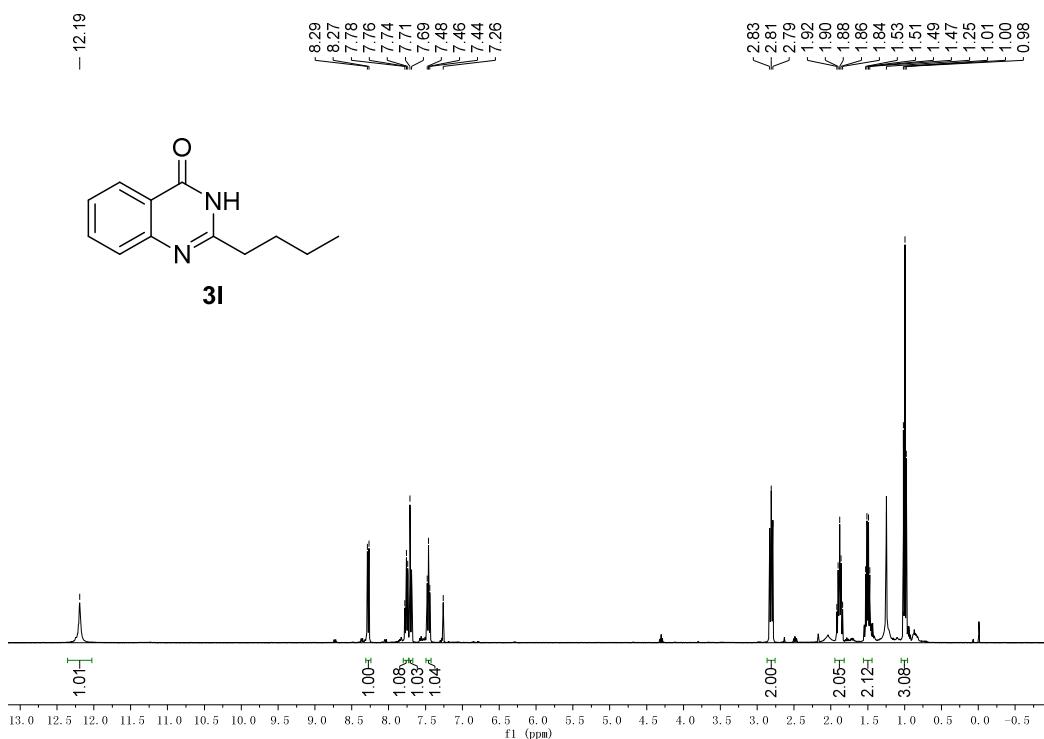


¹³C NMR, 100 MHz, DMSO-d₆

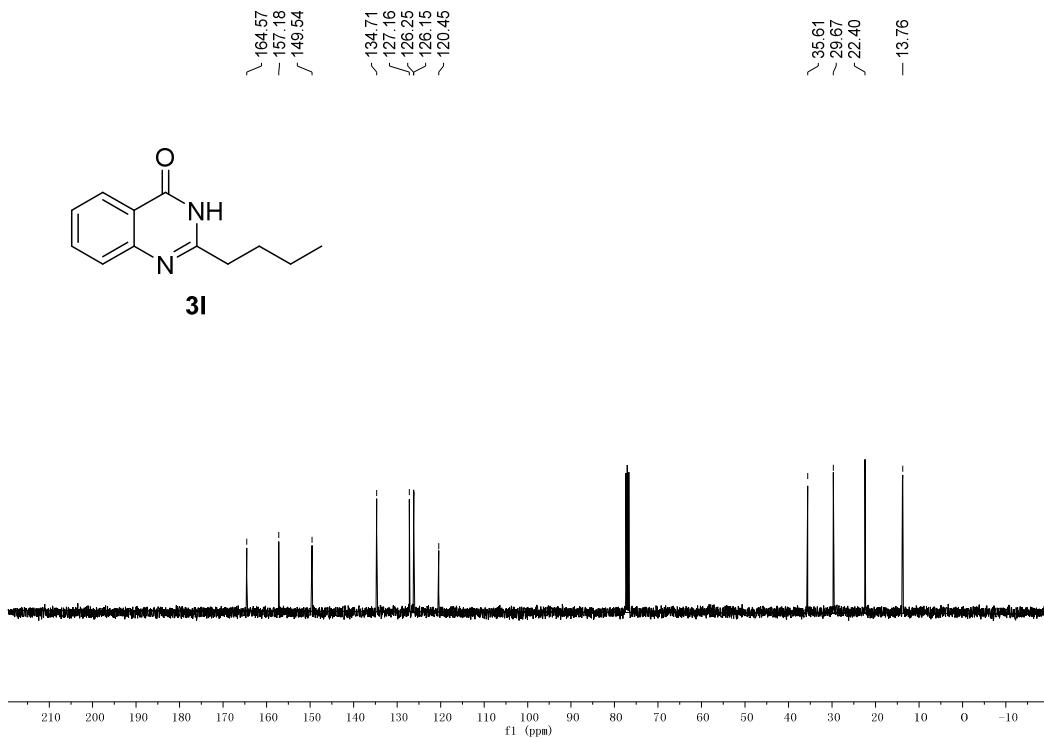


2-pentylquinazolin-4(3H)-one (3l)

¹H NMR, 400 MHz, CDCl₃

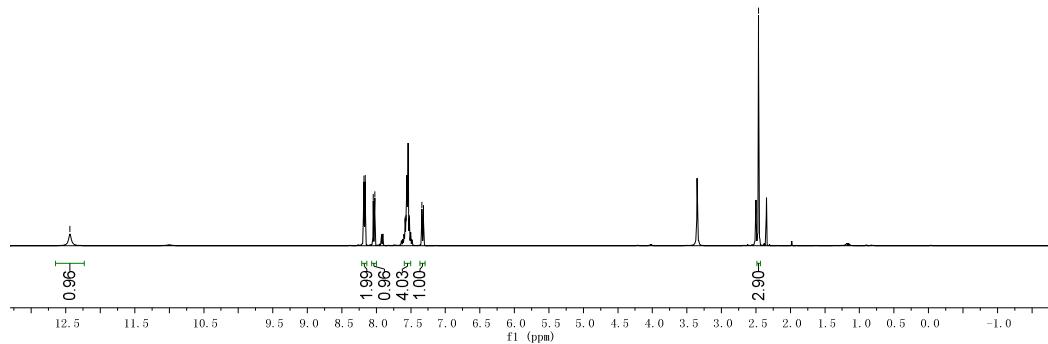
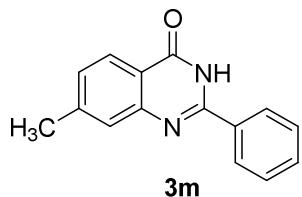


¹³C NMR, 100 MHz, CDCl₃

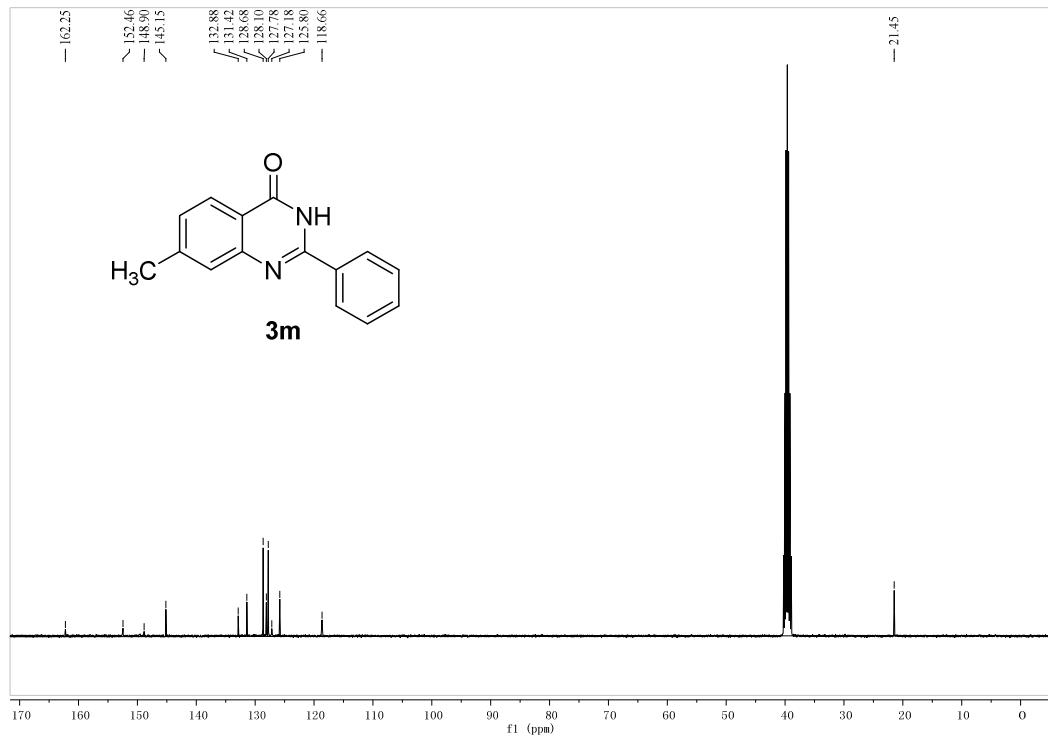
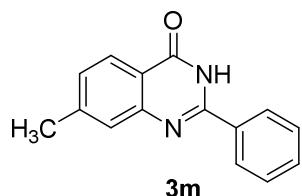
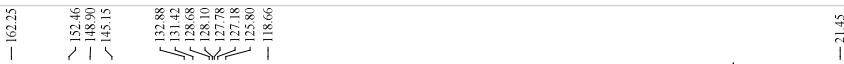


7-methyl-2-phenylquinazolin-4(3*H*)-one (3m)

¹H NMR, 400 MHz, DMSO-d₆

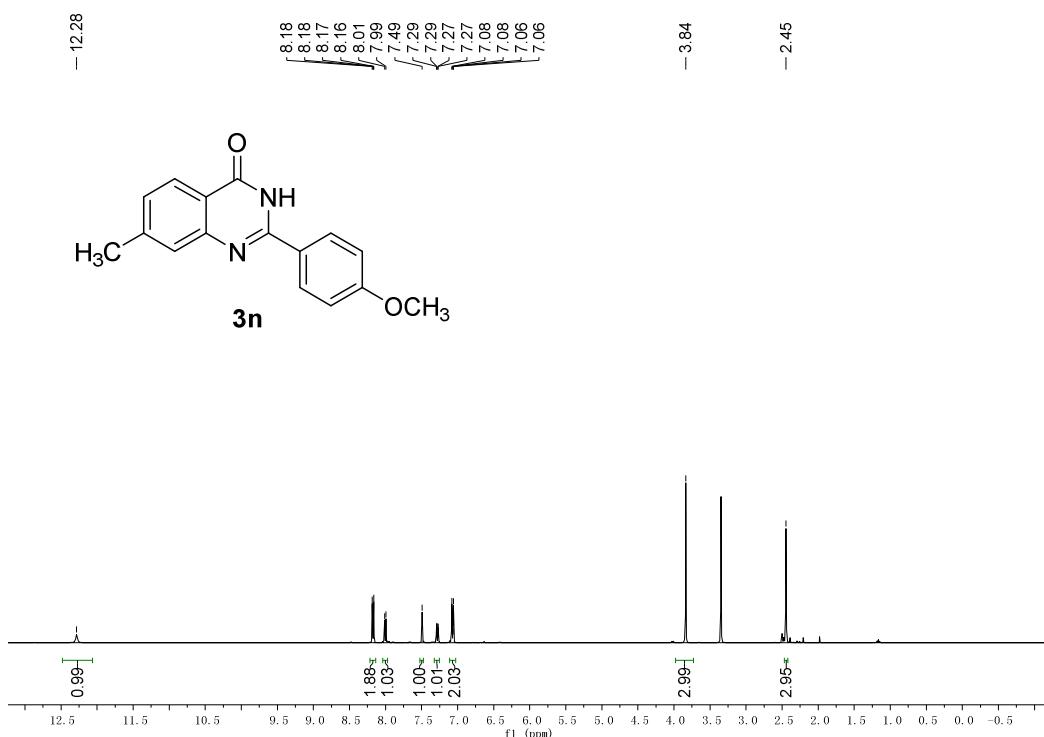


¹³C NMR, 100 MHz, DMSO-d₆

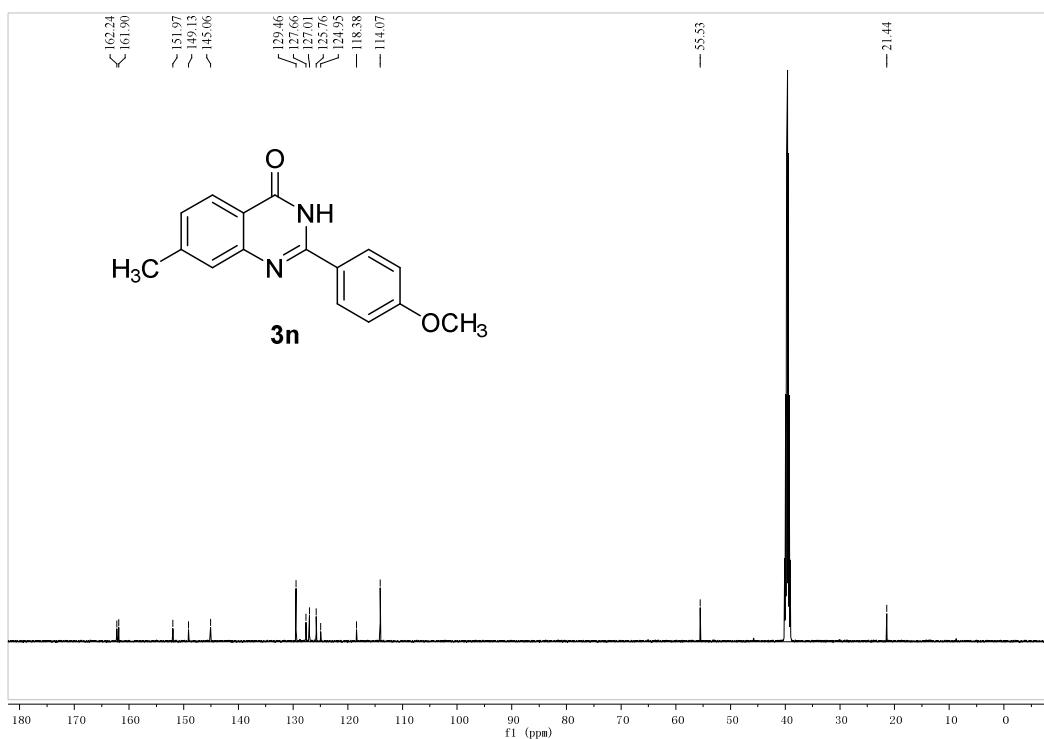


2-(4-methoxyphenyl)-7-methylquinazolin-4(3*H*)-one (3n**)**

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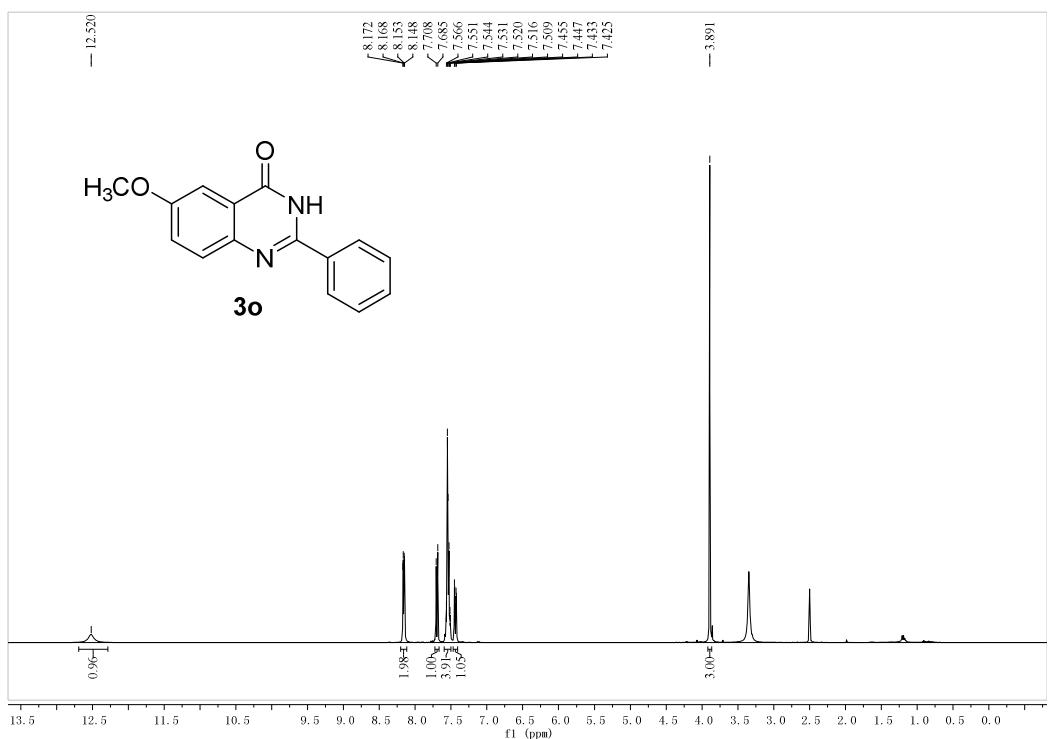


¹³C NMR, 100 MHz, DMSO-d₆

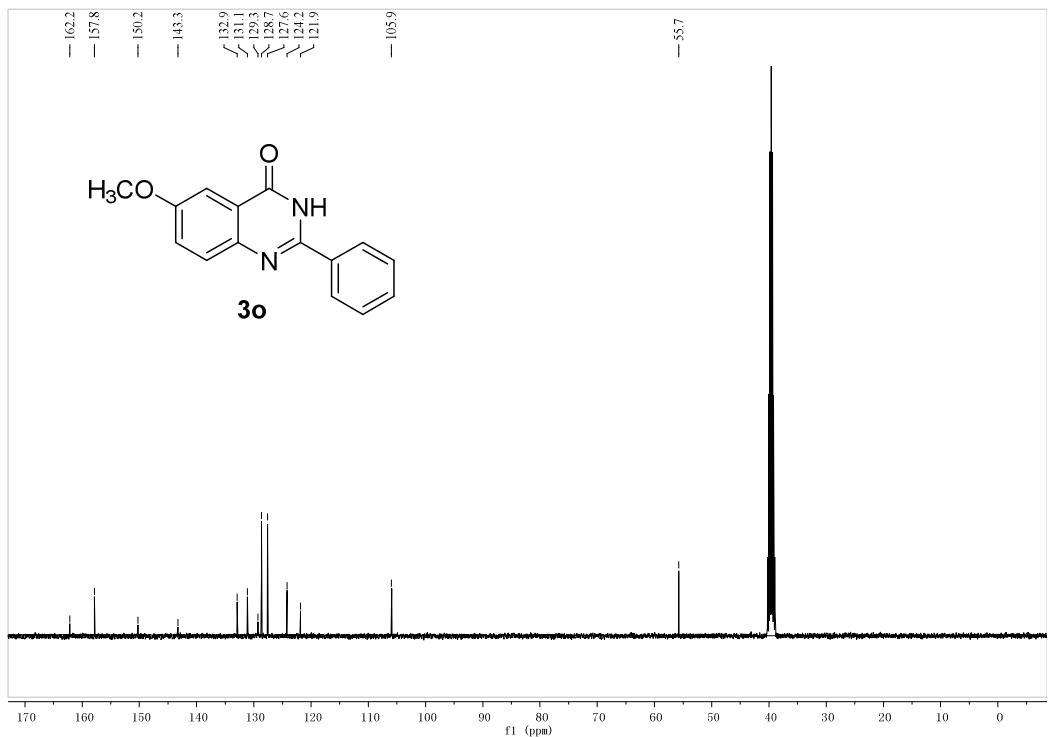


6-methoxy-2-phenylquinazolin-4(3*H*)-one (3o**)**

¹H NMR, 400 MHz, DMSO-d₆

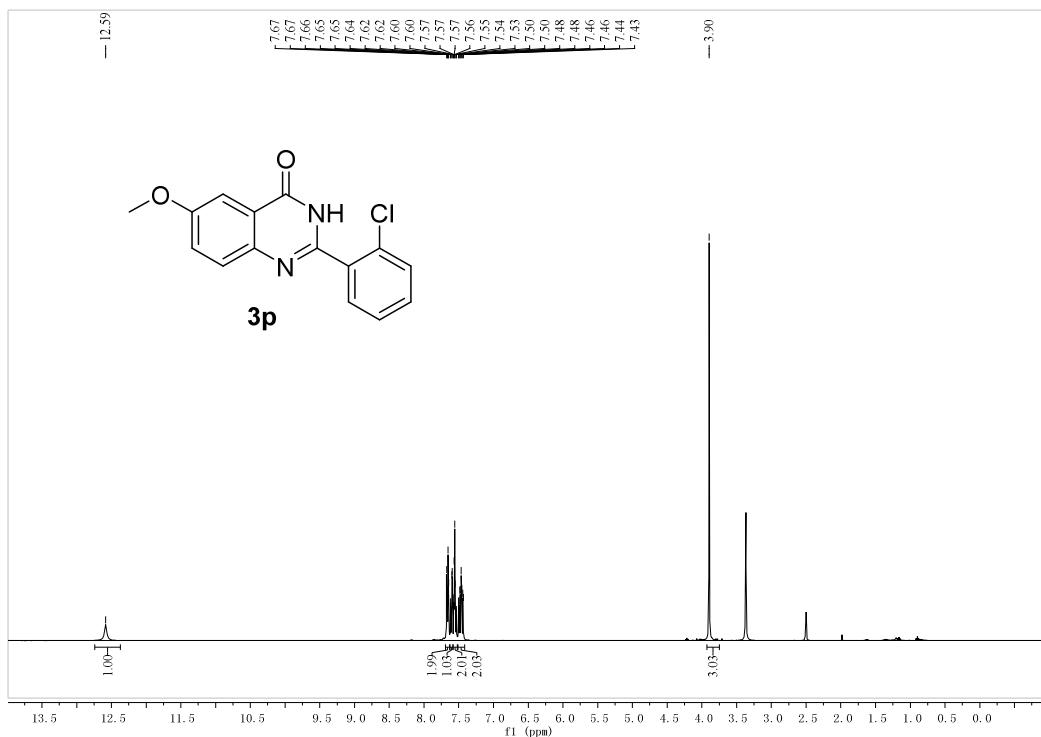


¹³C NMR, 100 MHz, DMSO-d₆

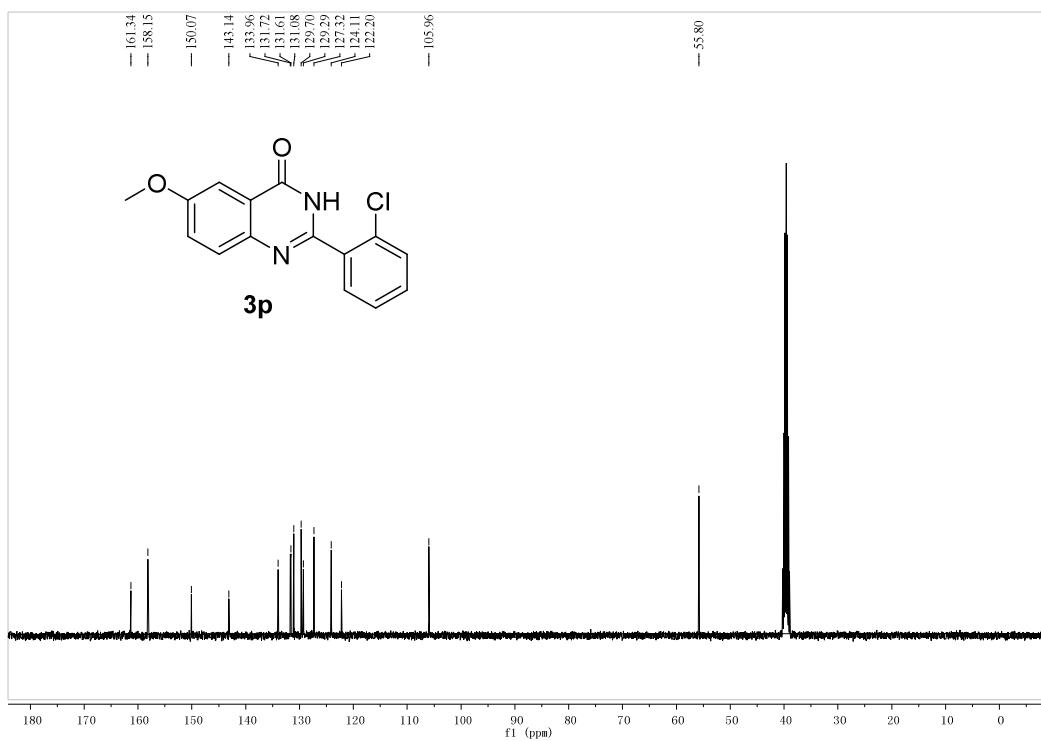


2-(2-chlorophenyl)-6-methoxyquinazolin-4(3*H*)-one (3p**)**

¹H NMR, 400 MHz, DMSO-d₆

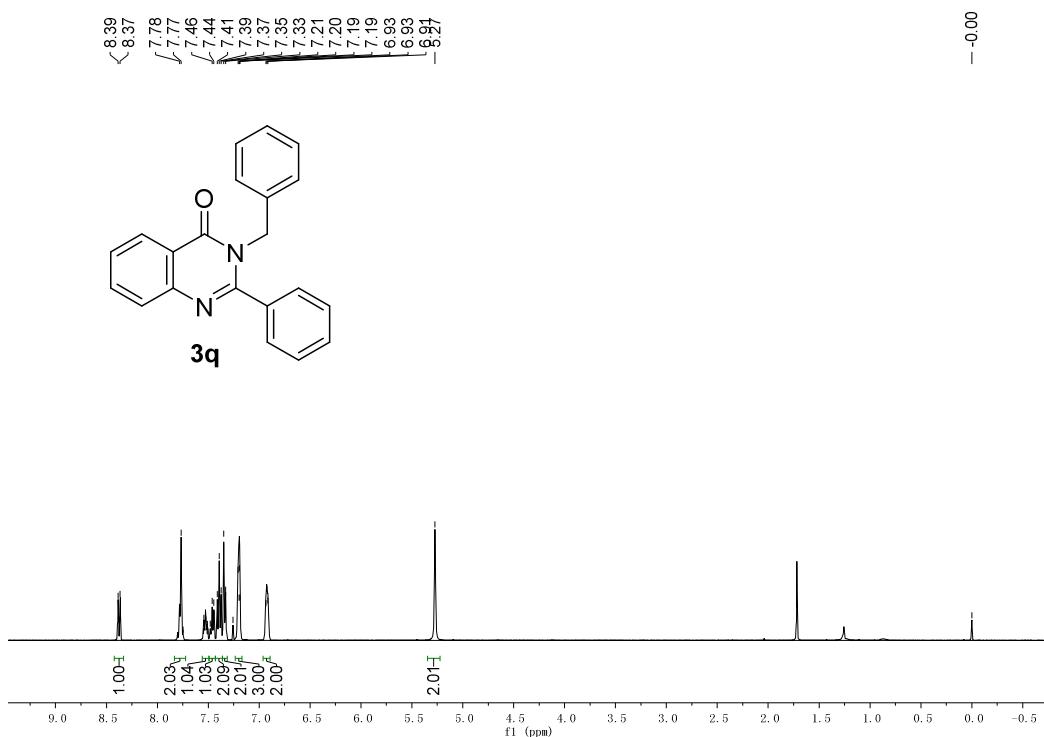


¹³C NMR, 100 MHz, DMSO-d₆

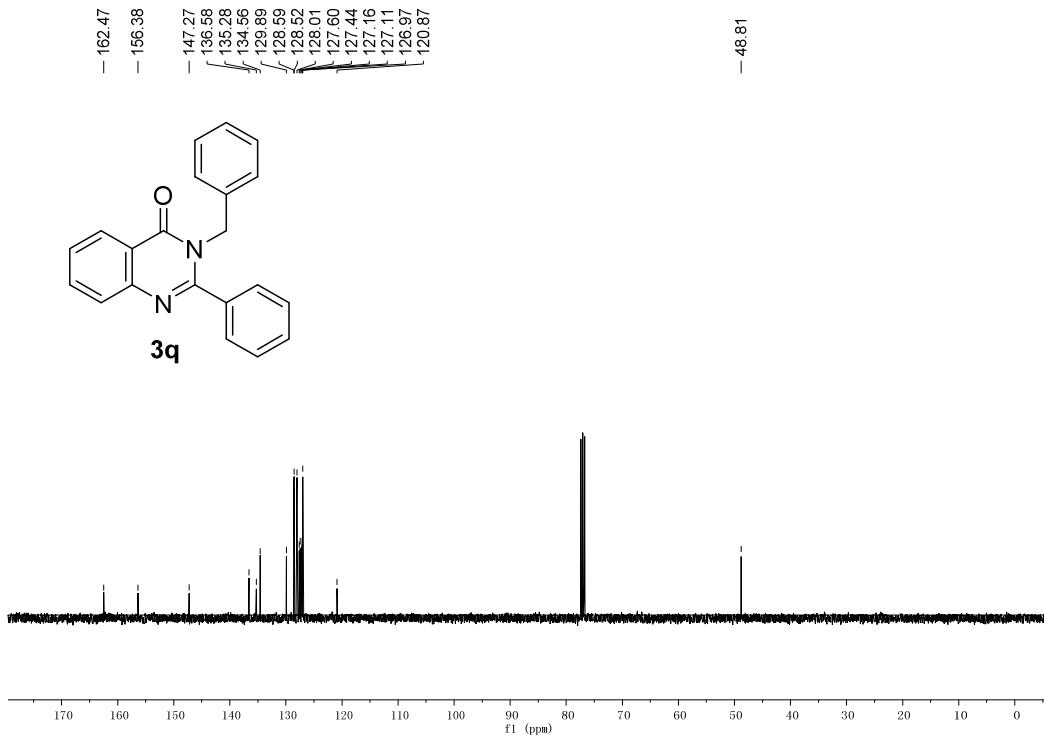


3-benzyl-2-phenylquinazolin-4(3*H*)-one (3q)

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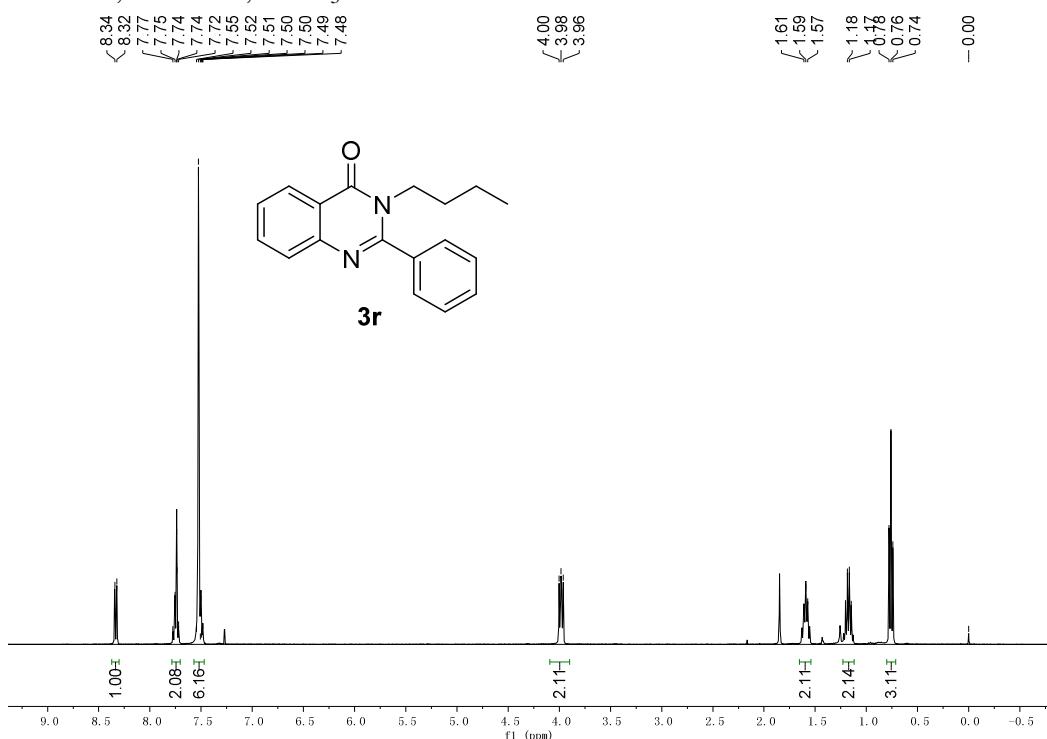


¹³C NMR, 100 MHz, CDCl₃

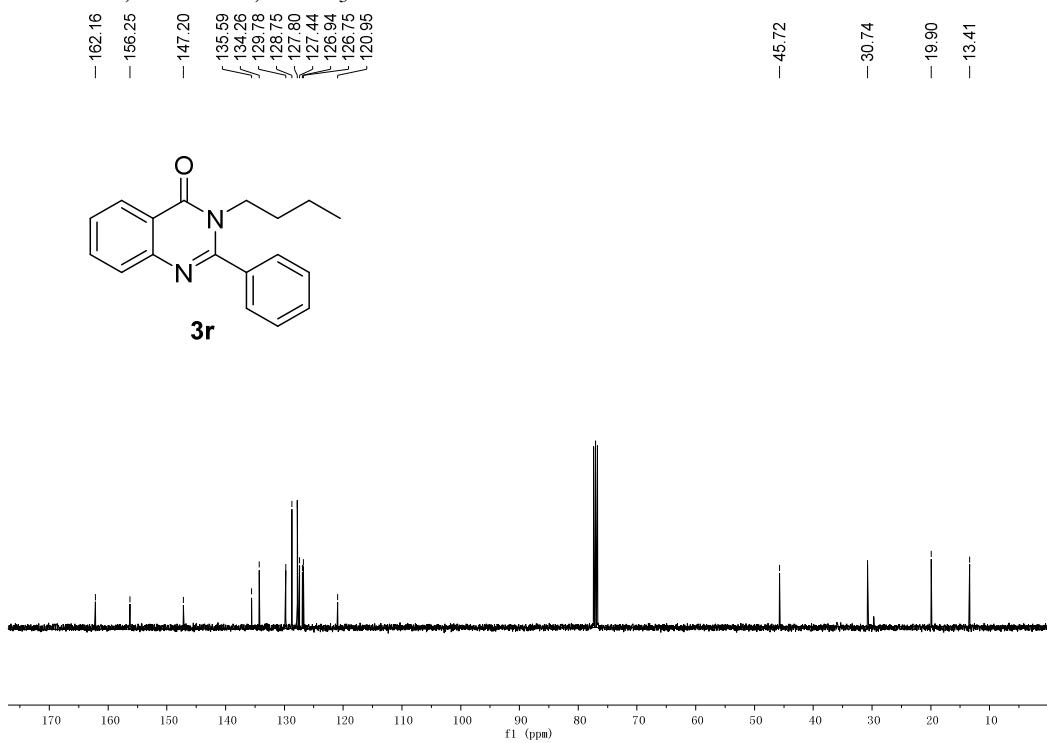


3-butyl-2-phenylquinazolin-4(3*H*)-one (3r**)**

¹H NMR, 400 MHz, CDCl₃

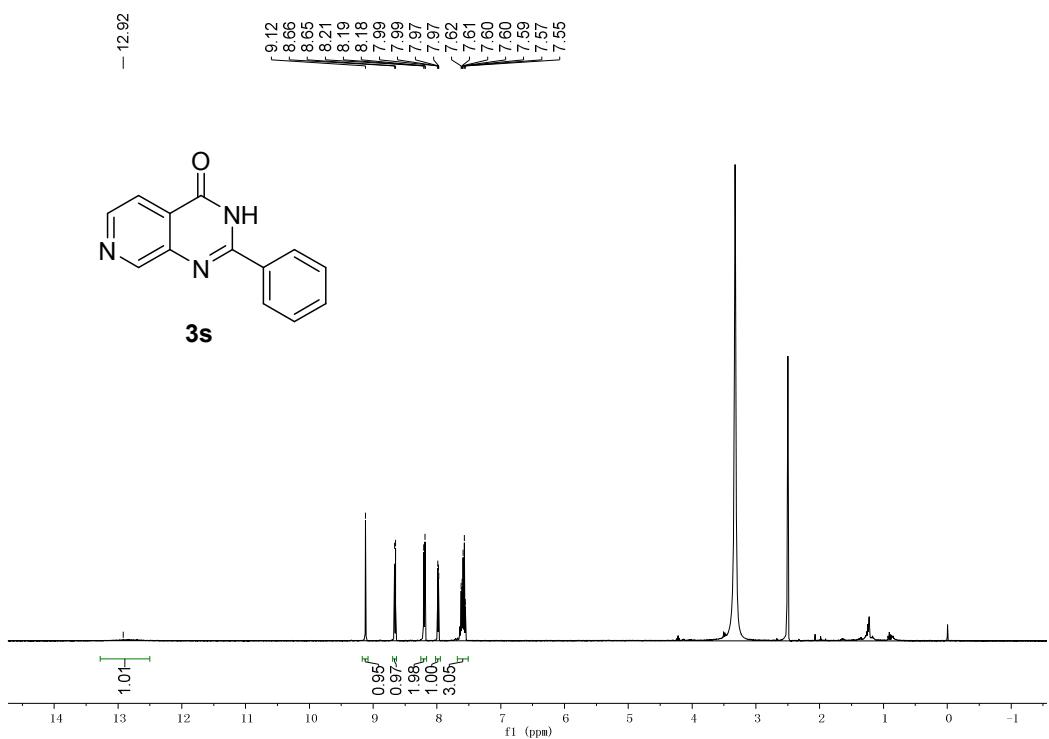


¹³C NMR, 100 MHz, CDCl₃



2-phenylpyrido[3,4-d]pyrimidin-4(3H)-one (3s)

¹H NMR, 400 MHz, DMSO-d₆



¹³C NMR, 100 MHz, DMSO-d₆

