

## Supplementary Information

### Imidazo[1,2-*a*]pyridine A<sup>3</sup>-Coupling Catalyzed by a Cu/SiO<sub>2</sub> Material

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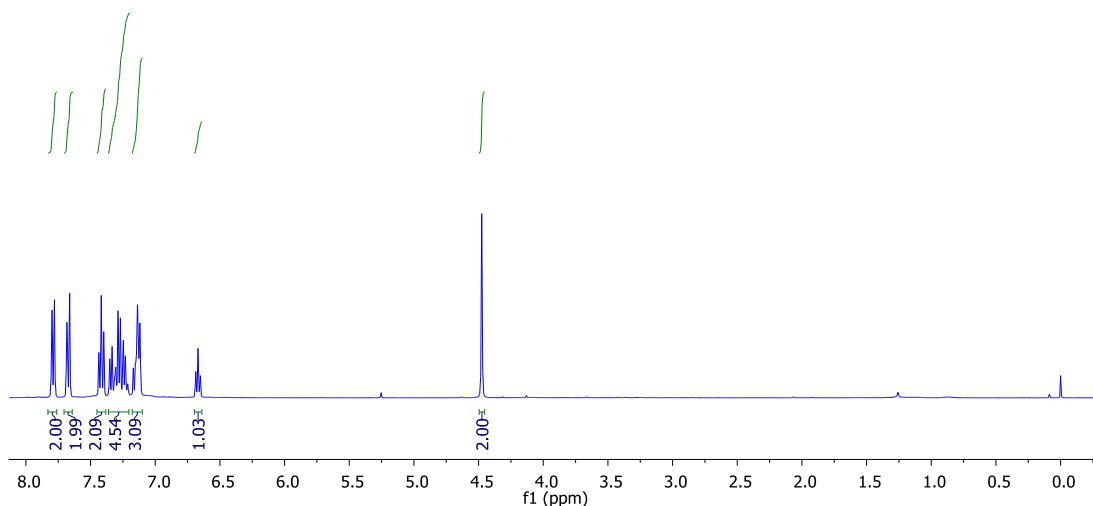
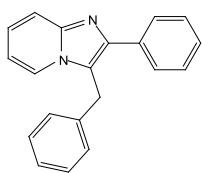
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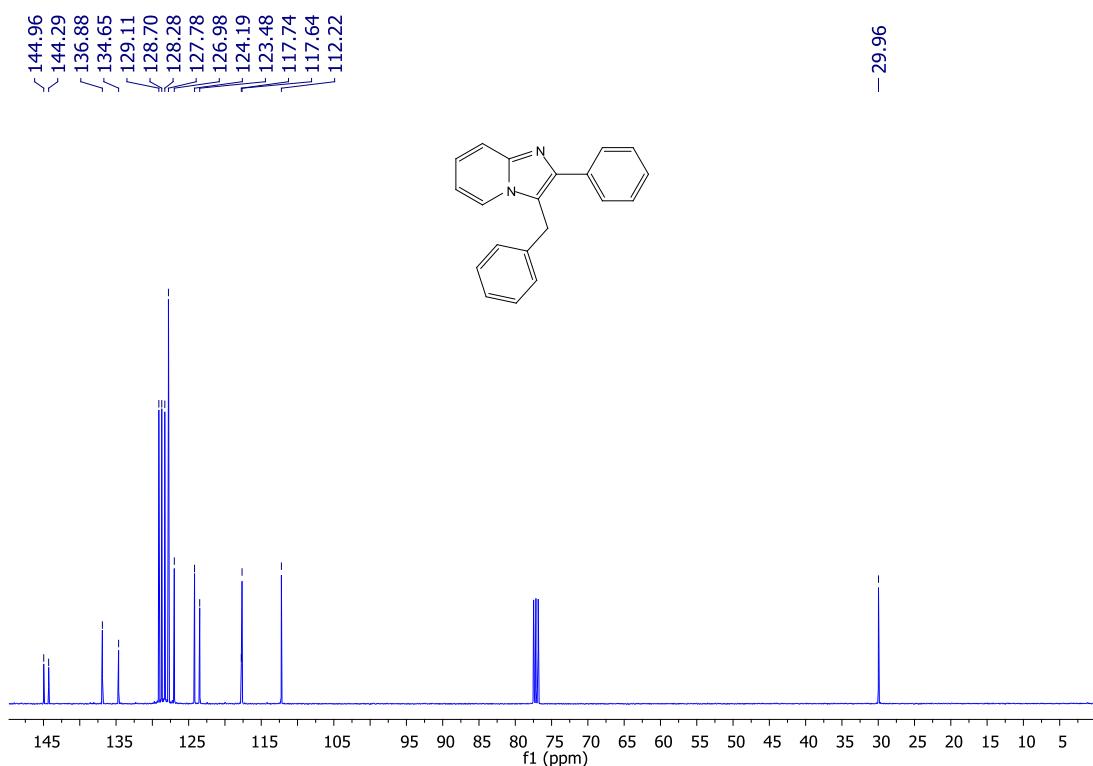
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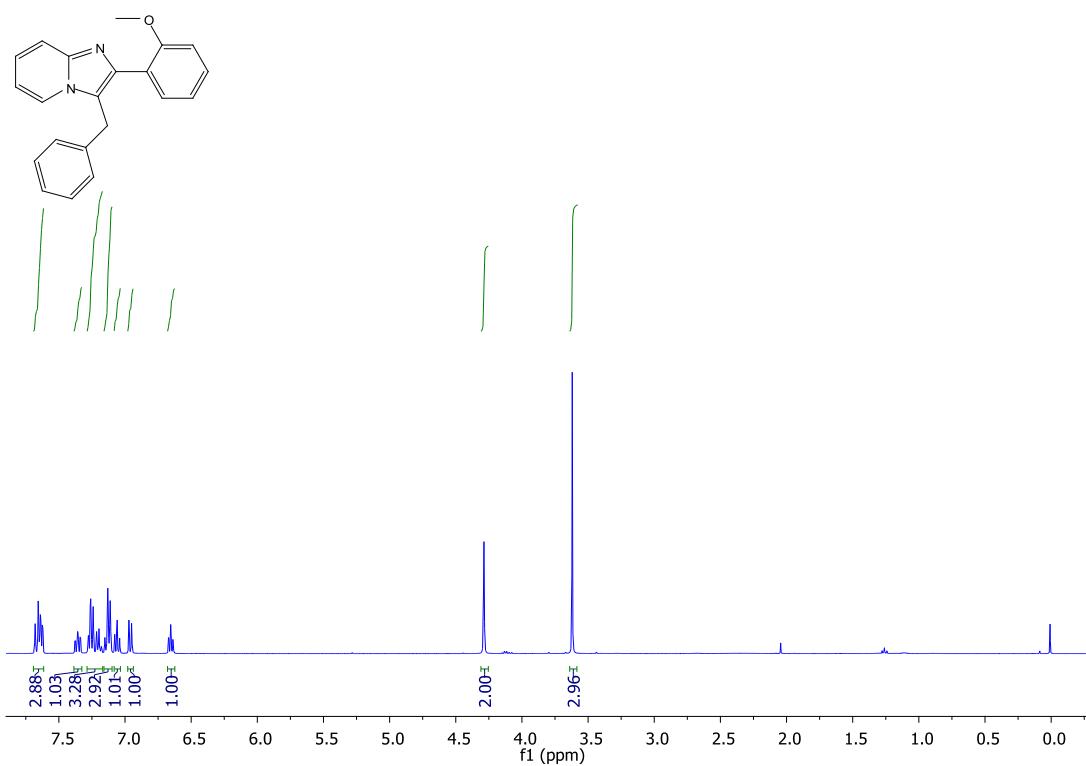
\*e-mail: paulos@iq.ufrgs.br



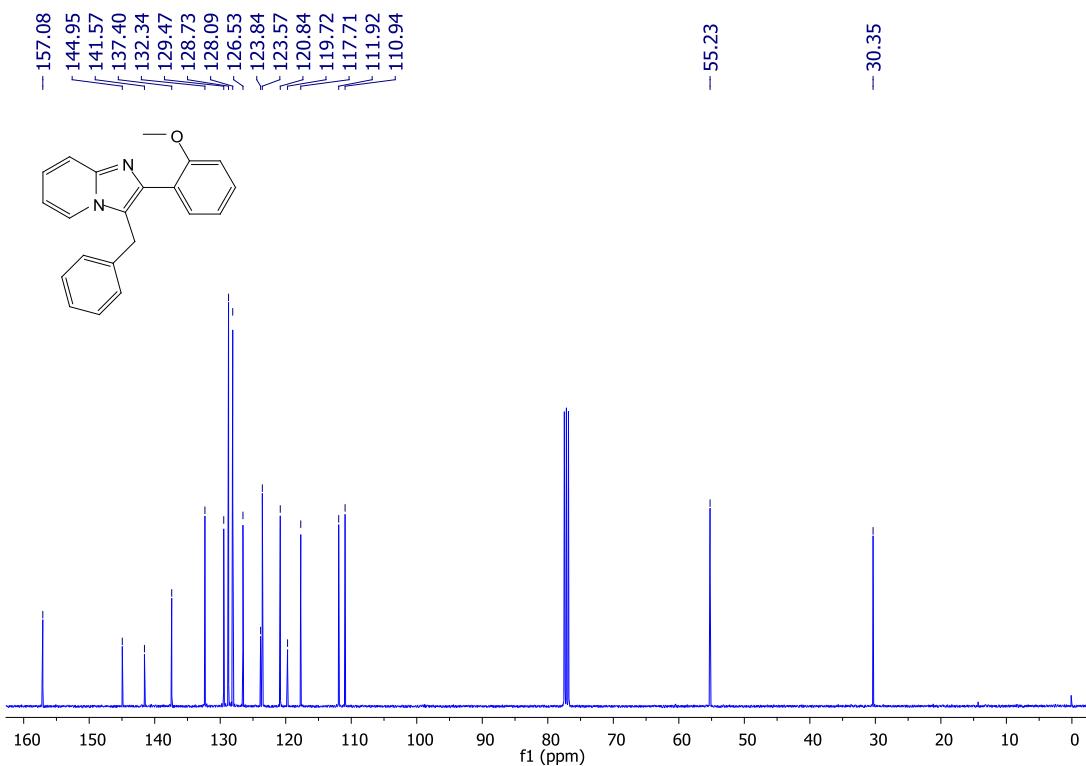
**Figure S1.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-phenylimidazo[1,2-*a*]pyridine (**4a**).



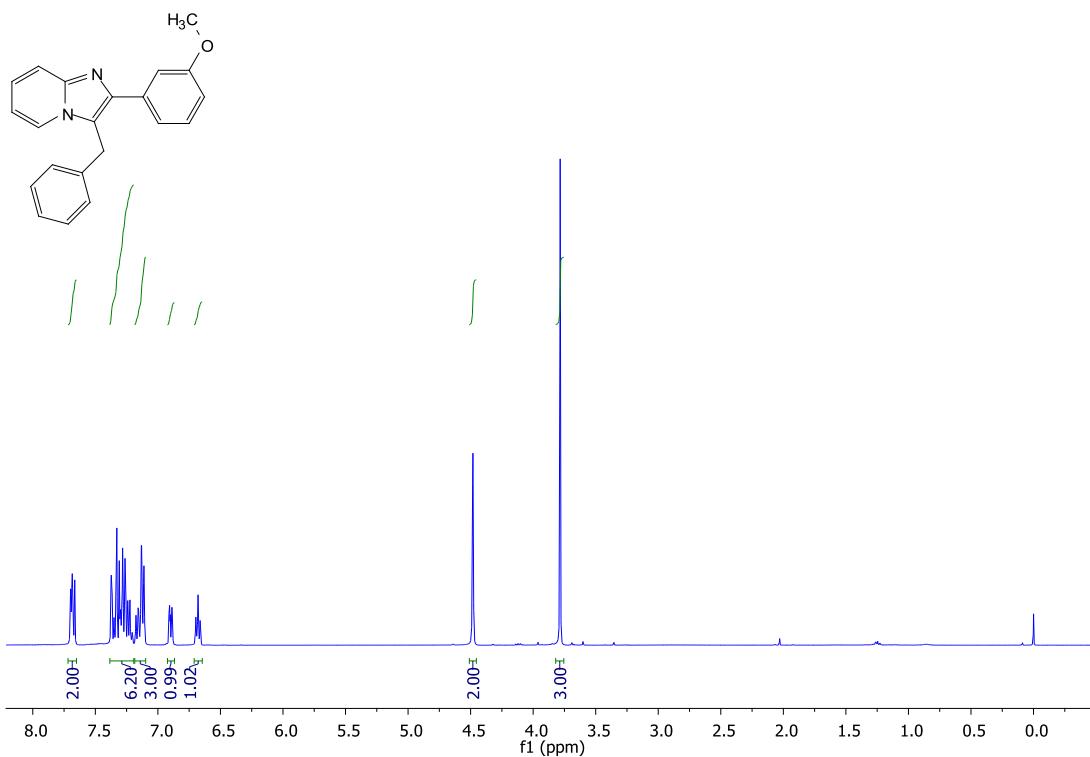
**Figure S2.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-phenylimidazo[1,2-*a*]pyridine (**4a**).



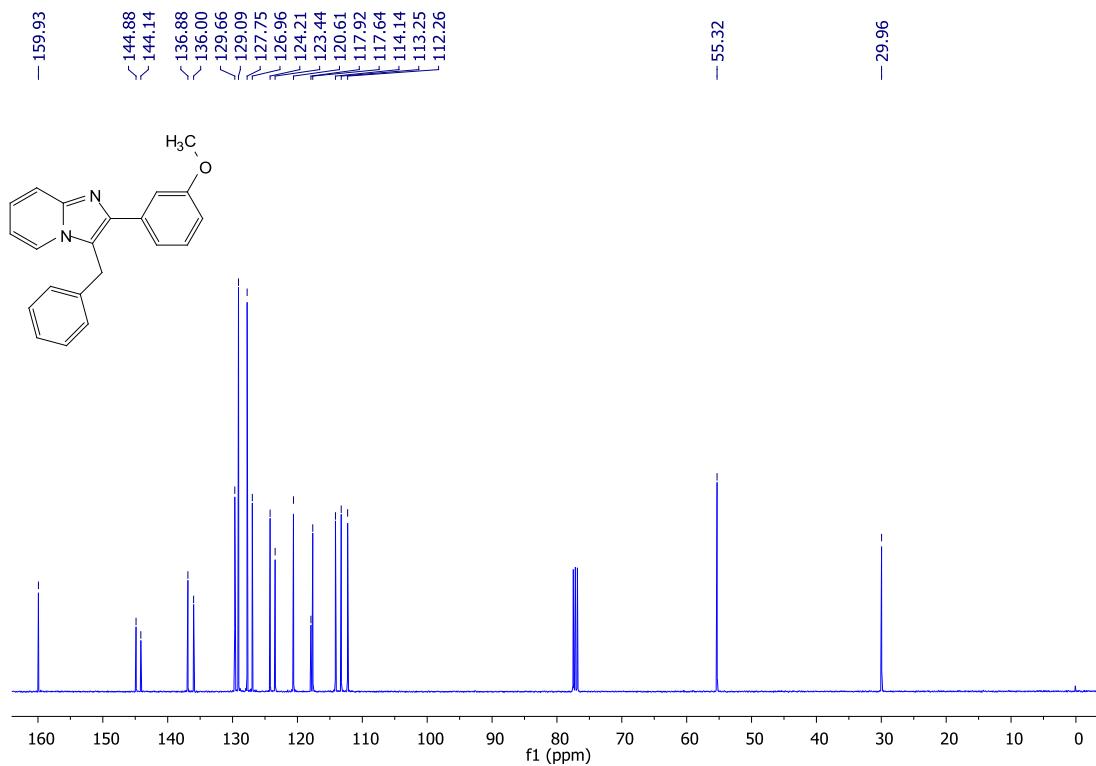
**Figure S3.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) of 3-benzyl-2-(2-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4b**).



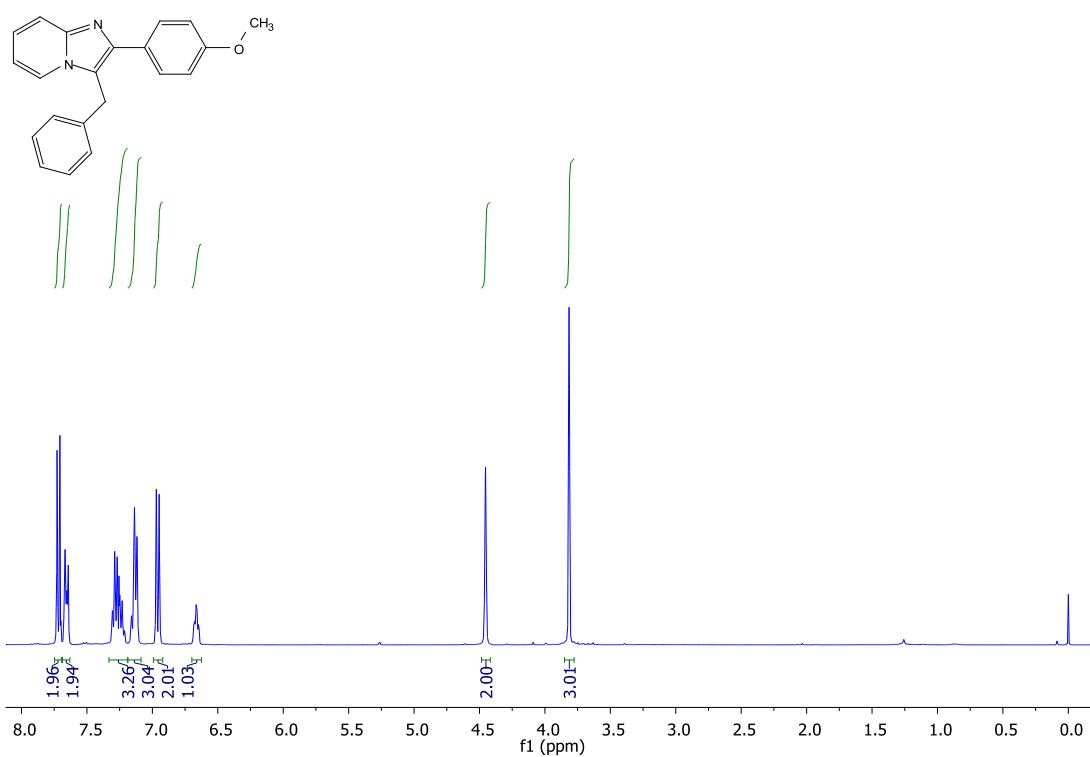
**Figure S4.**  $^{13}\text{C}$  NMR (101 MHz,  $\text{CDCl}_3$ ) of 3-benzyl-2-(2-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4b**).



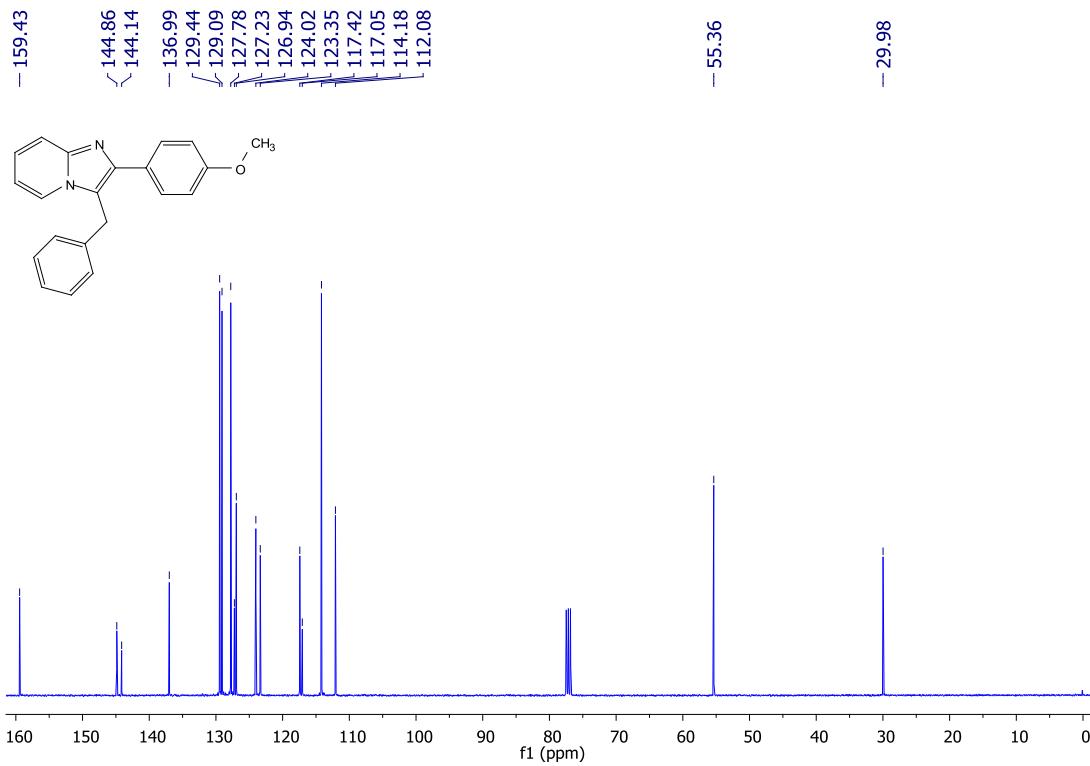
**Figure S5.**  $^1\text{H}$  NMR (400 MHz,  $\text{CDCl}_3$ ) of 3-benzyl-2-(3-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4c**).



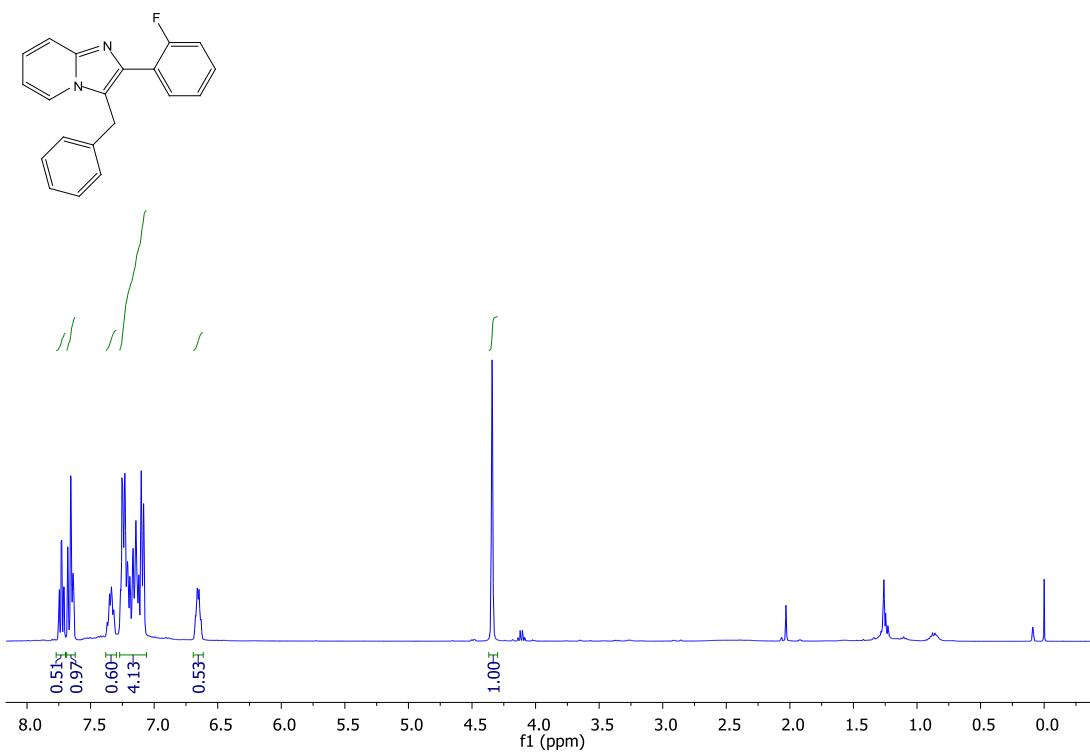
**Figure S6.**  $^{13}\text{C}$  NMR (100 MHz,  $\text{CDCl}_3$ ) of 3-benzyl-2-(3-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4c**).



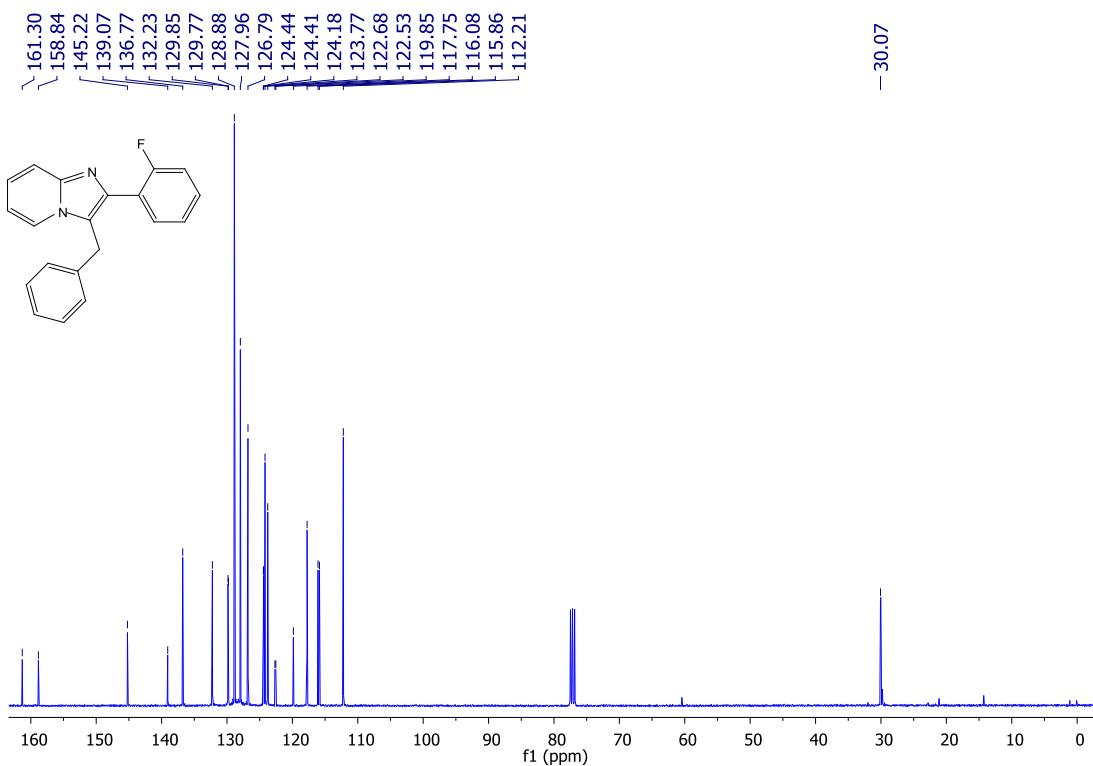
**Figure S7.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(4-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4d**).



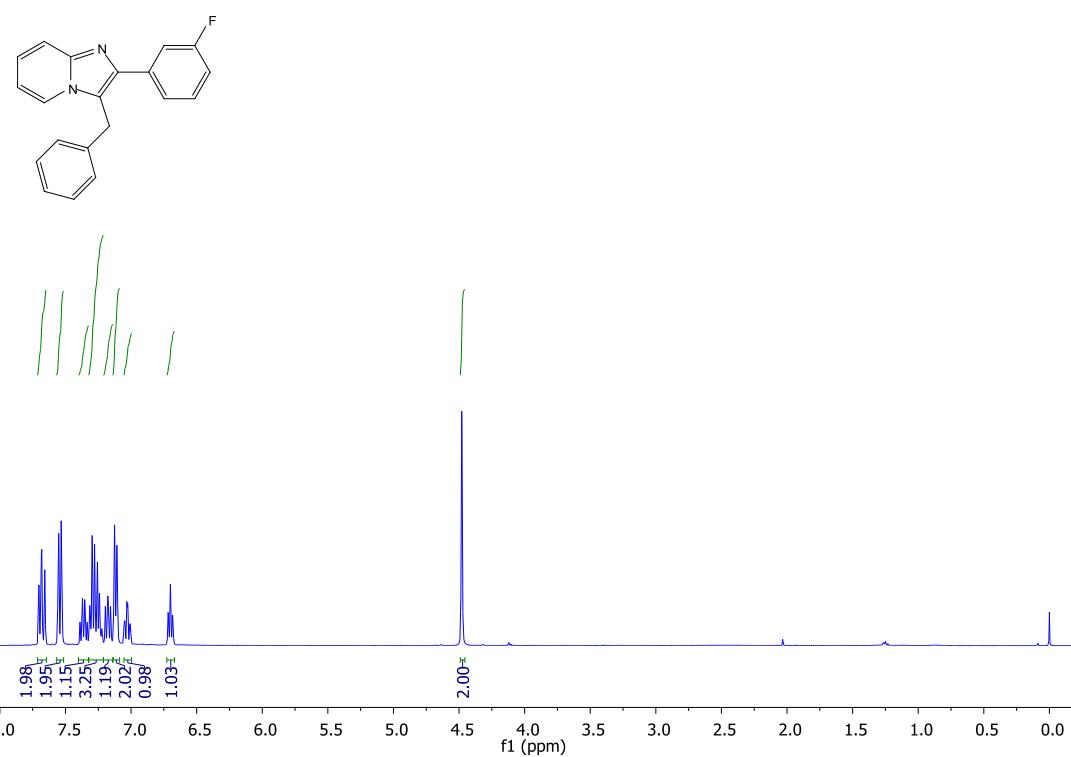
**Figure S8.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(4-methoxyphenyl)imidazo[1,2-*a*]pyridine (**4d**).



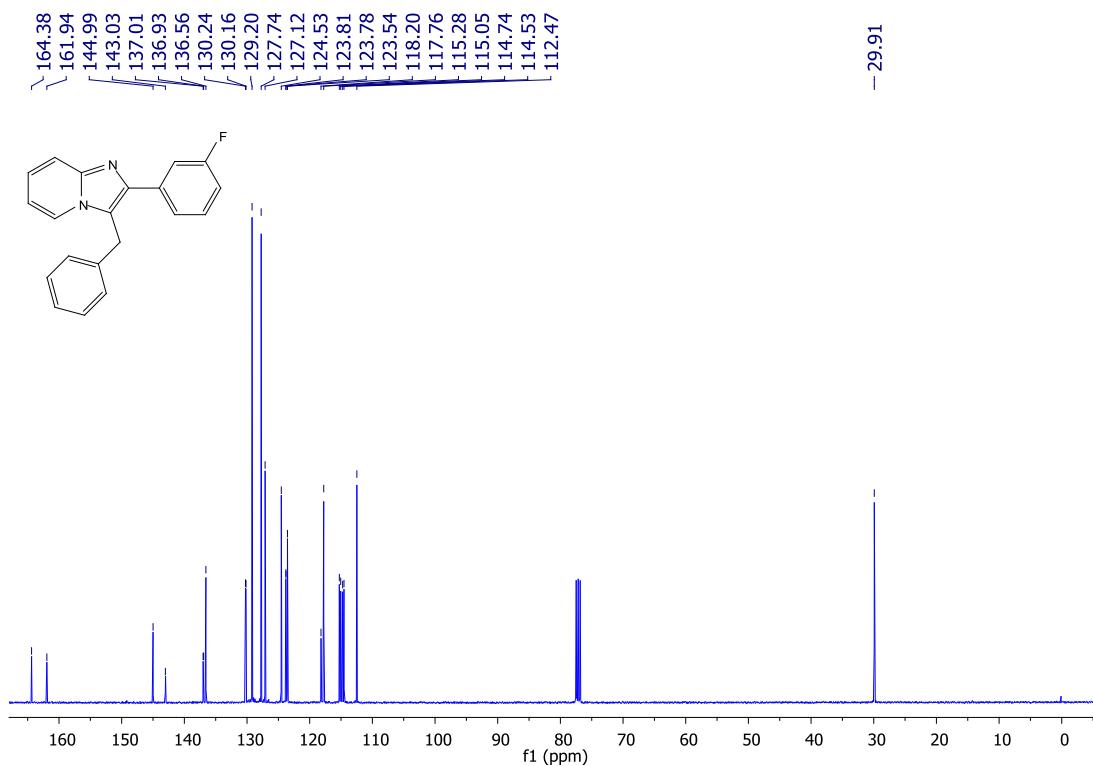
**Figure S9.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(2-fluorophenyl)imidazo[1,2-*a*]pyridine (**4e**).



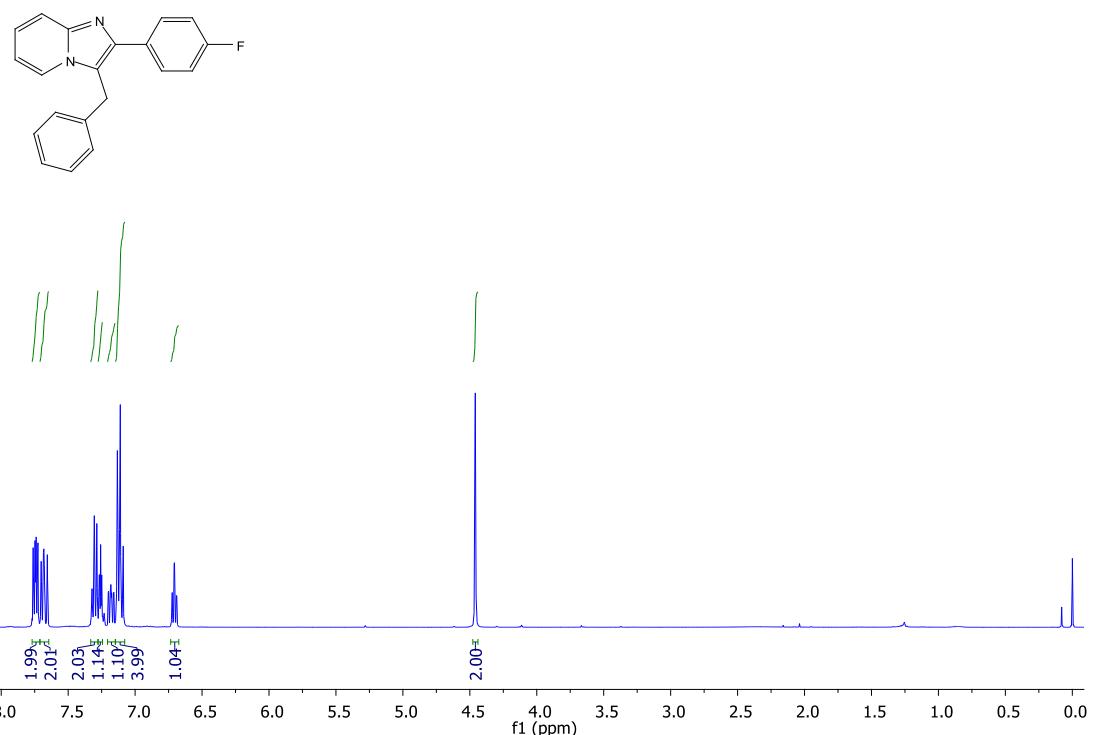
**Figure S10.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(2-fluorophenyl)imidazo[1,2-*a*]pyridine (**4e**).



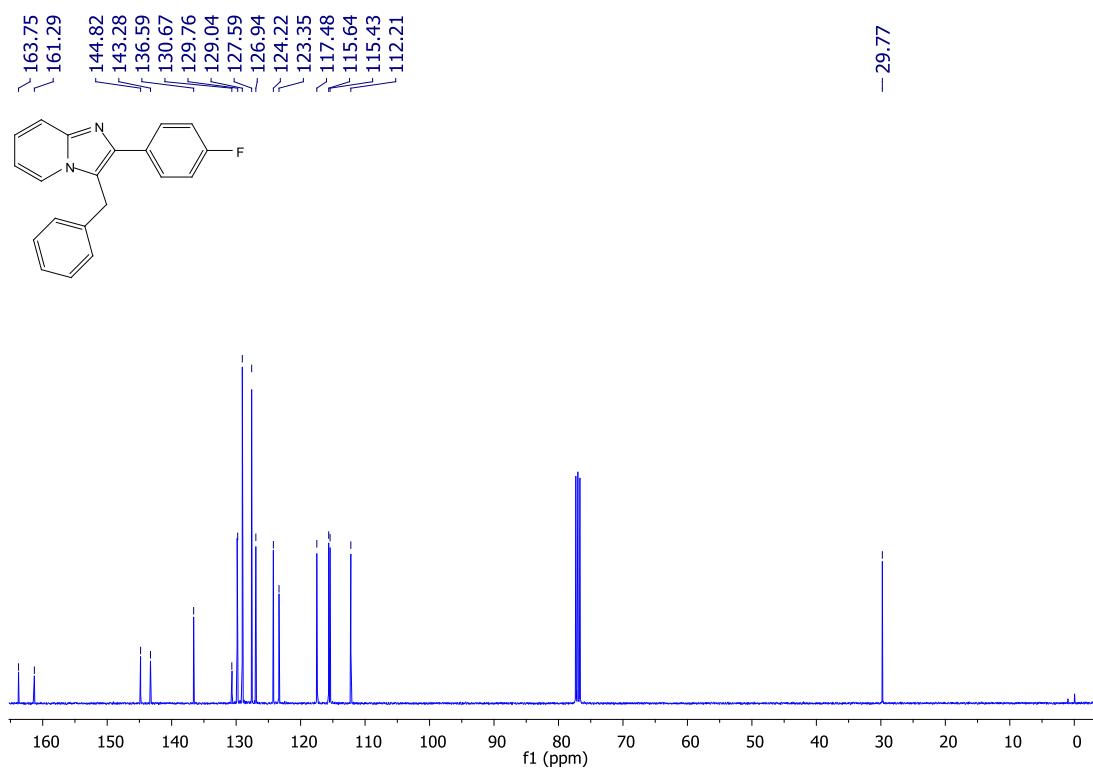
**Figure S11.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(3-fluorophenyl)imidazo[1,2-*a*]pyridine (**4f**).



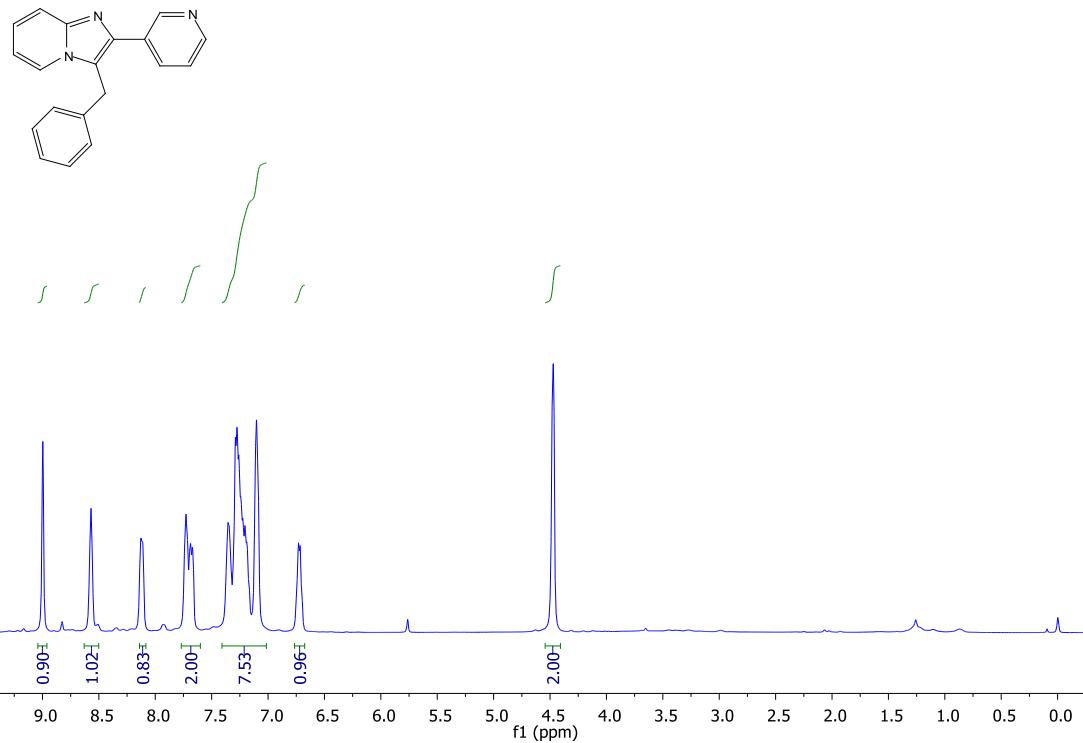
**Figure S12.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(3-fluorophenyl)imidazo[1,2-*a*]pyridine (**4f**).



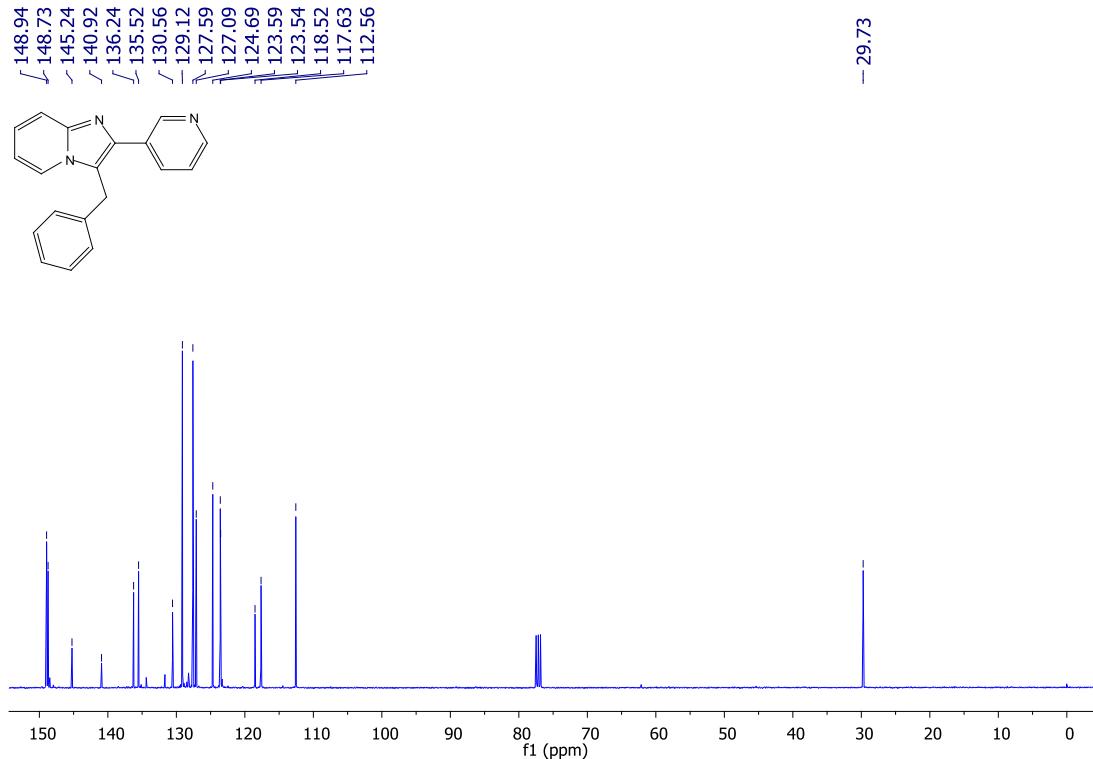
**Figure S13.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(4-fluorophenyl)imidazo[1,2-a]pyridine (**4g**).



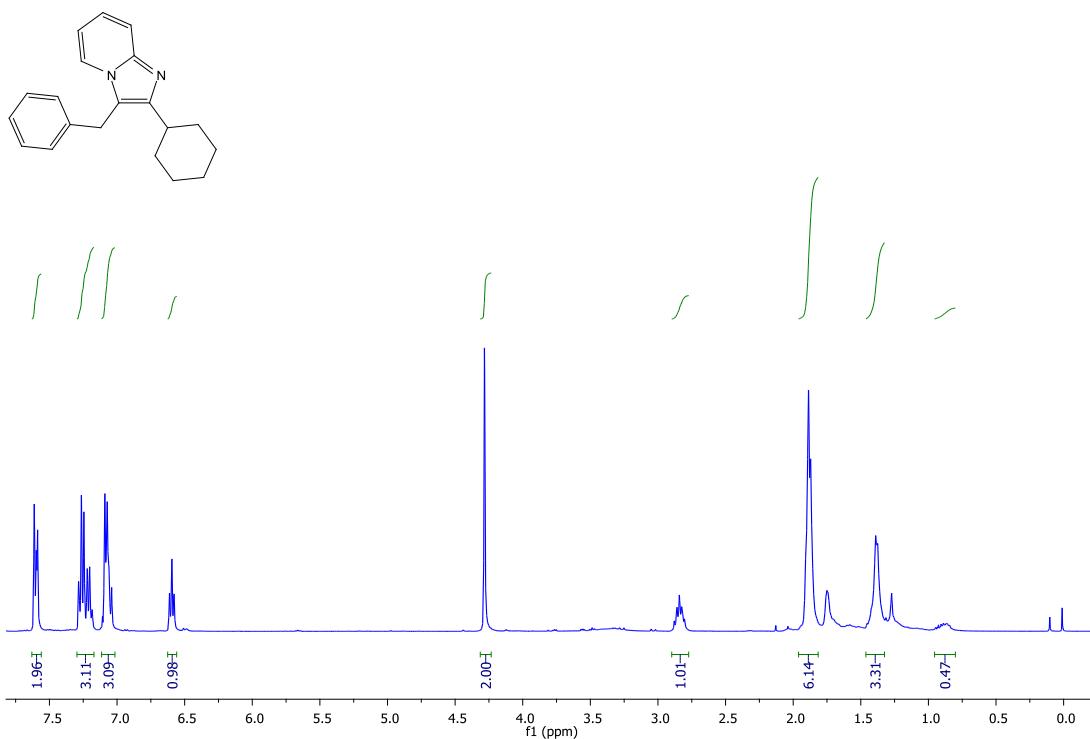
**Figure S14.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(4-fluorophenyl)imidazo[1,2-a]pyridine (**4g**).



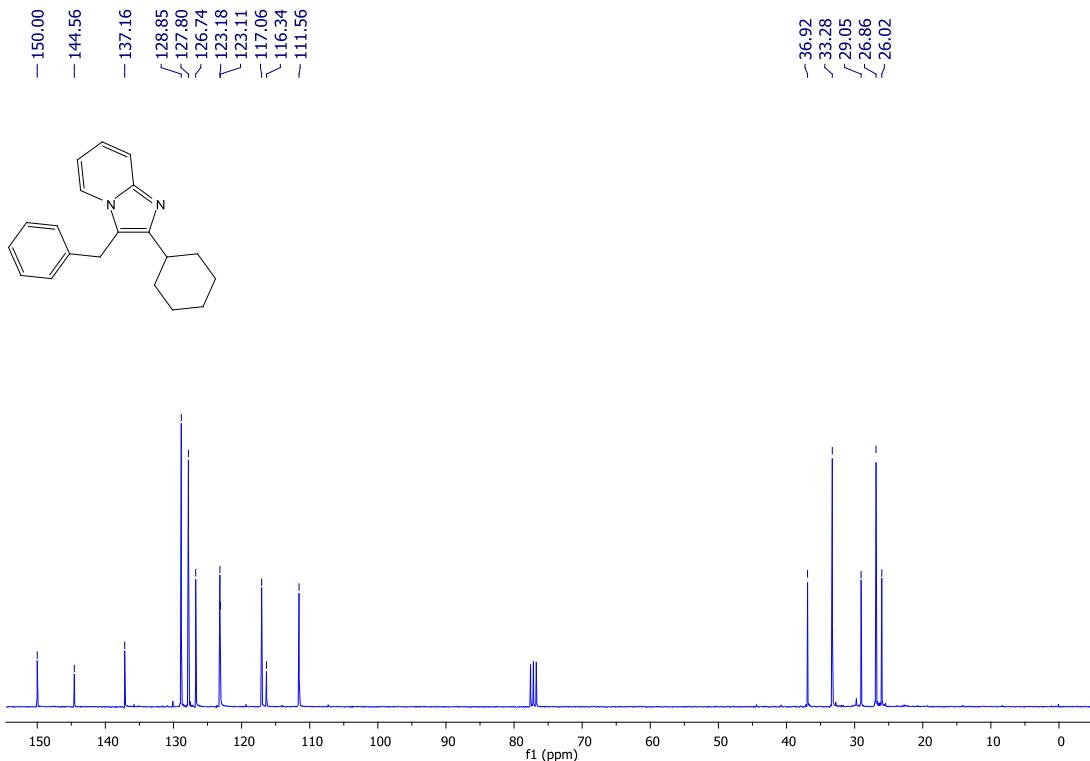
**Figure S15.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(pyridin-3-yl)imidazo[1,2-*a*]pyridine (**4h**).



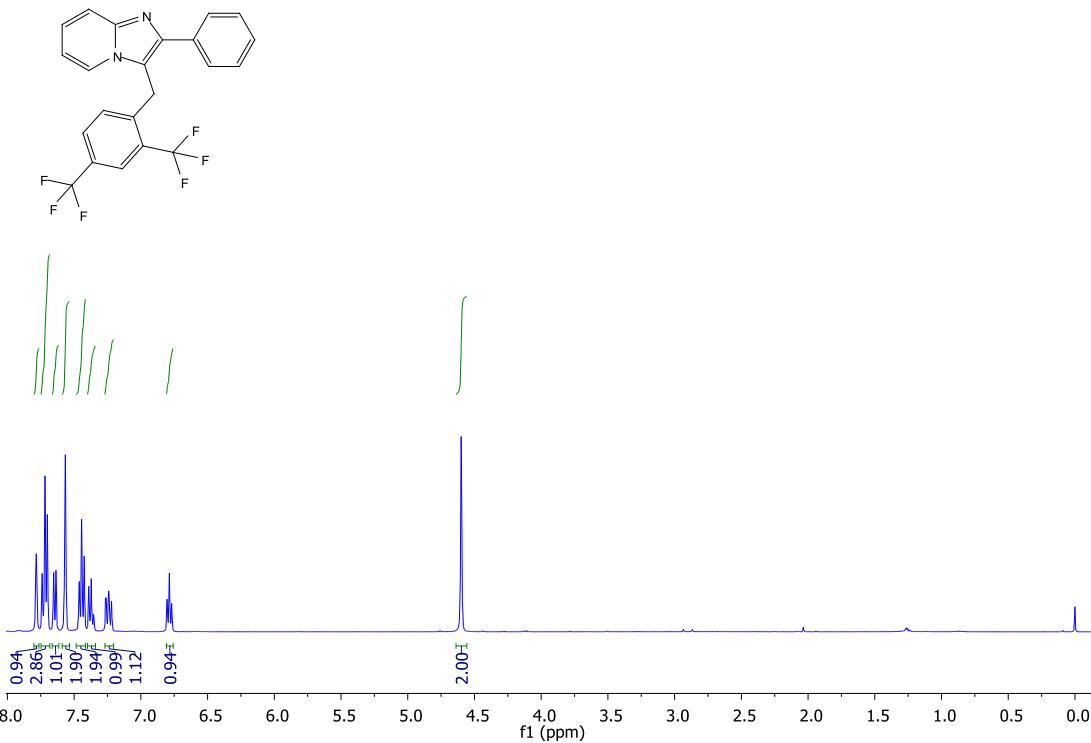
**Figure S16.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-(pyridin-3-yl)imidazo[1,2-*a*]pyridine (**4h**).



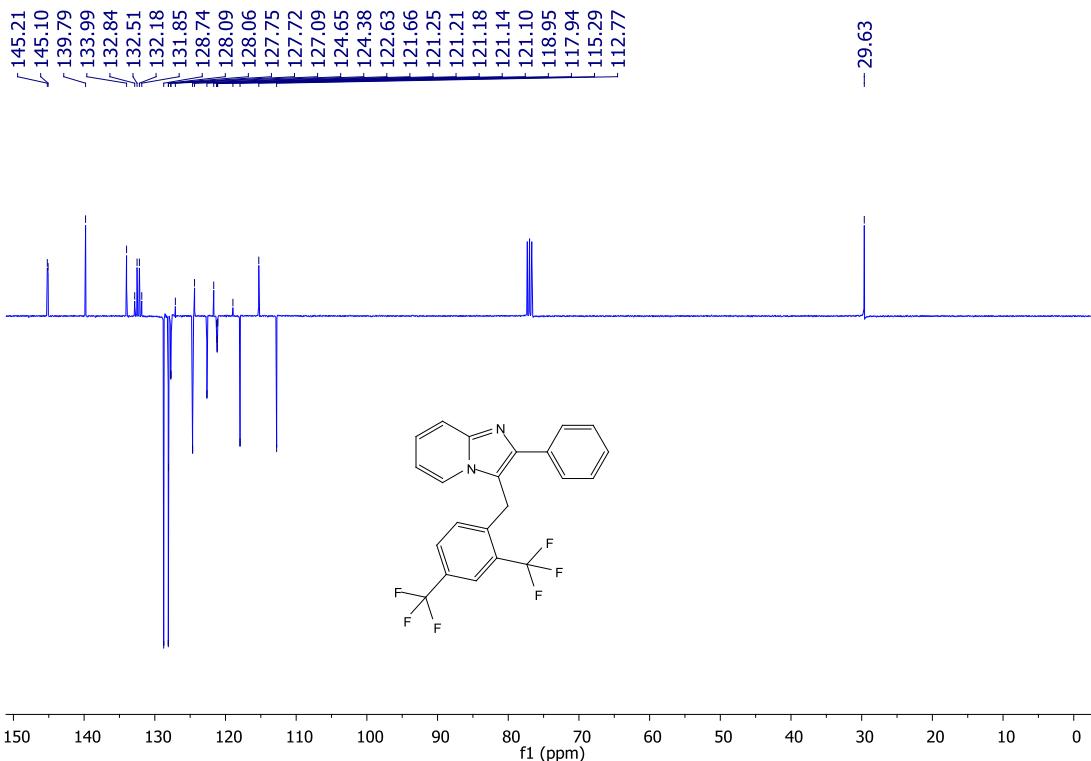
**Figure S17.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-cyclohexylimidazo[1,2-*a*]pyridine (**4j**).



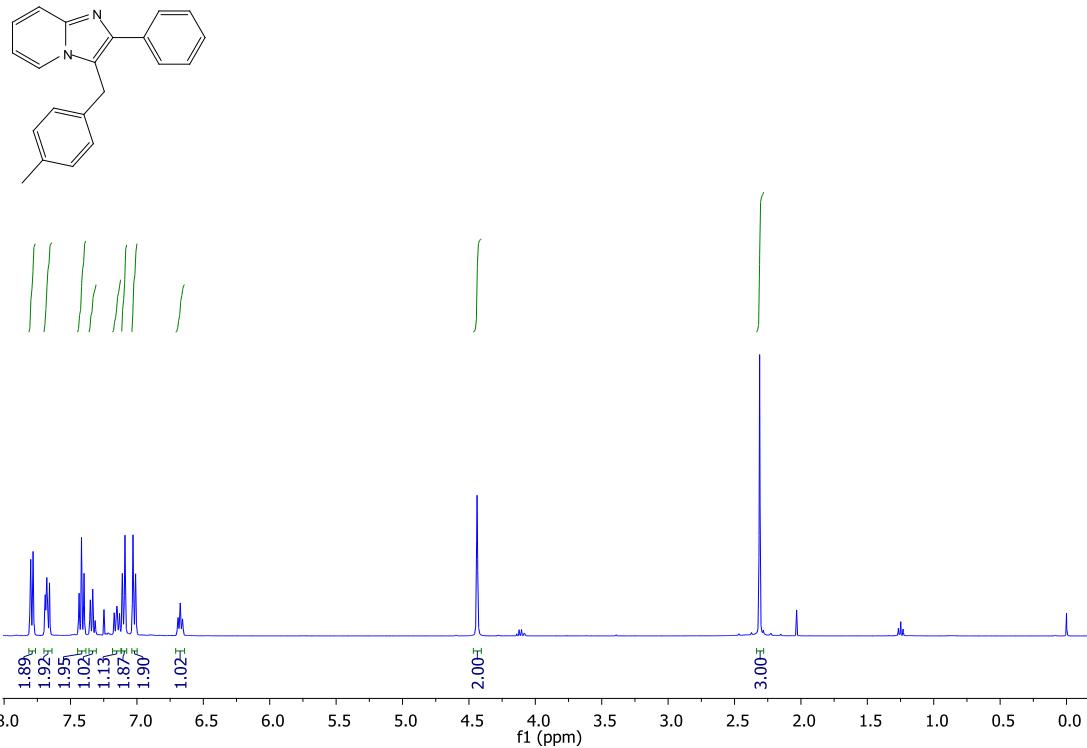
**Figure S18.** <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of 3-benzyl-2-cyclohexylimidazo[1,2-*a*]pyridine (**4j**).



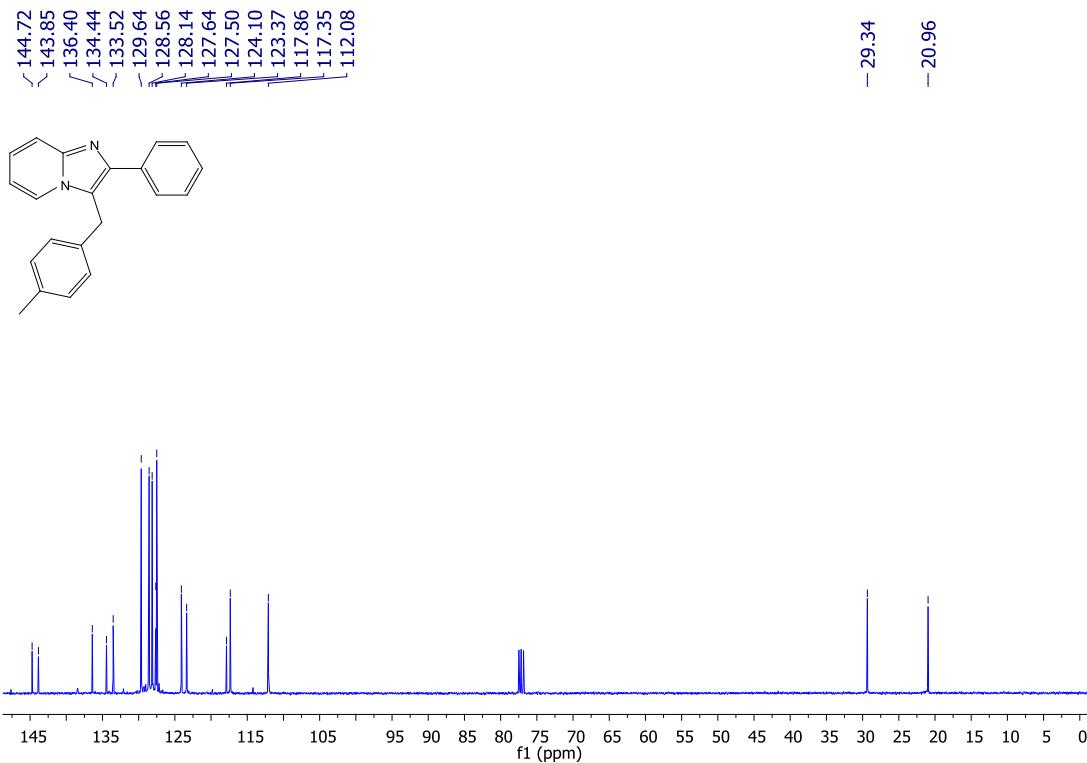
**Figure S19.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-(3,5-bis(trifluoromethyl)benzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4k**).



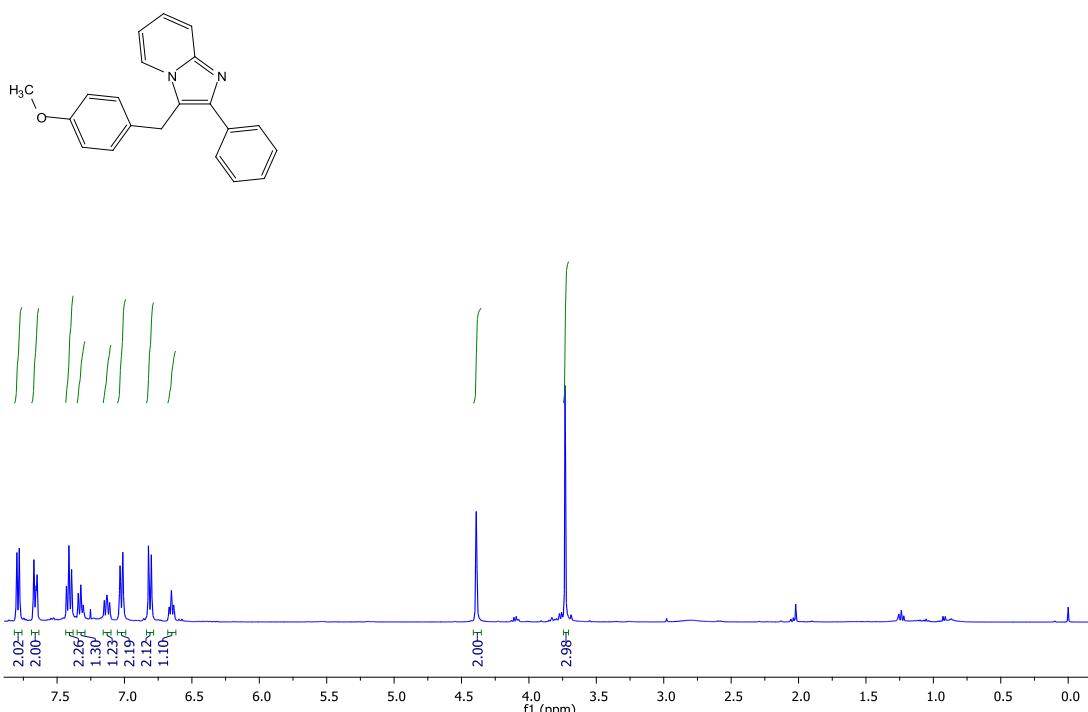
**Figure S20.** <sup>13</sup>C APT NMR (100 MHz, CDCl<sub>3</sub>) of 3-(3,5-bis(trifluoromethyl)benzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4k**).



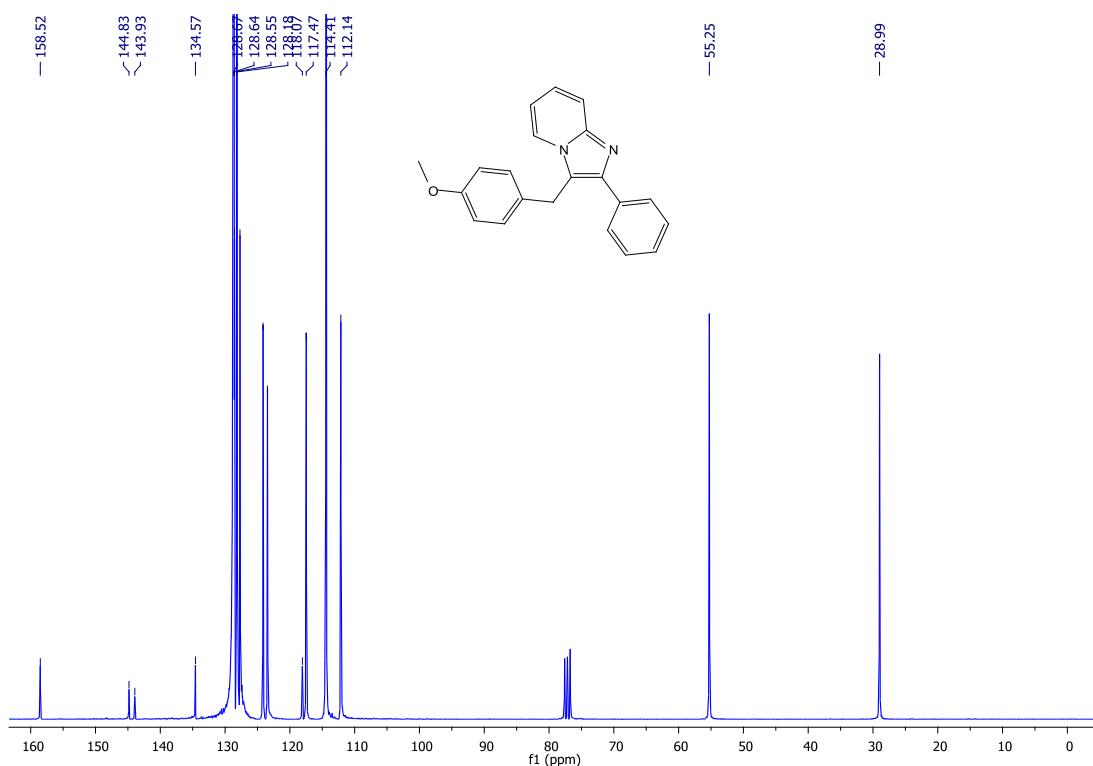
**Figure S21.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-(4-methylbenzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4l**).



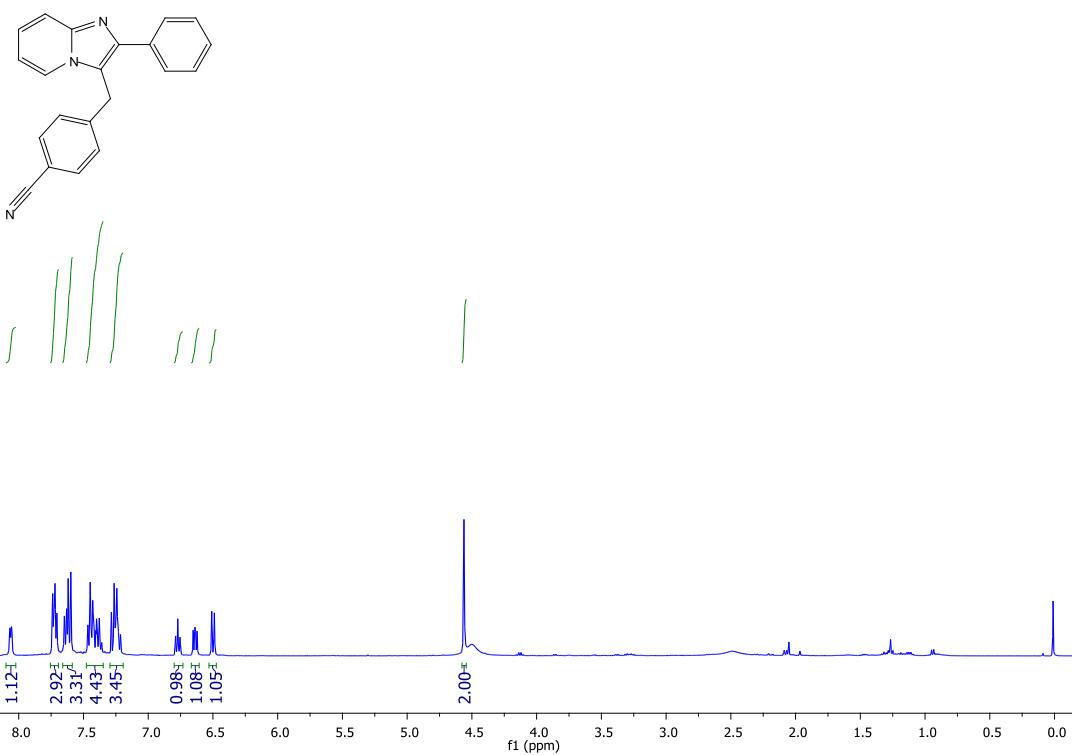
**Figure S22.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 3-(4-methylbenzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4l**).



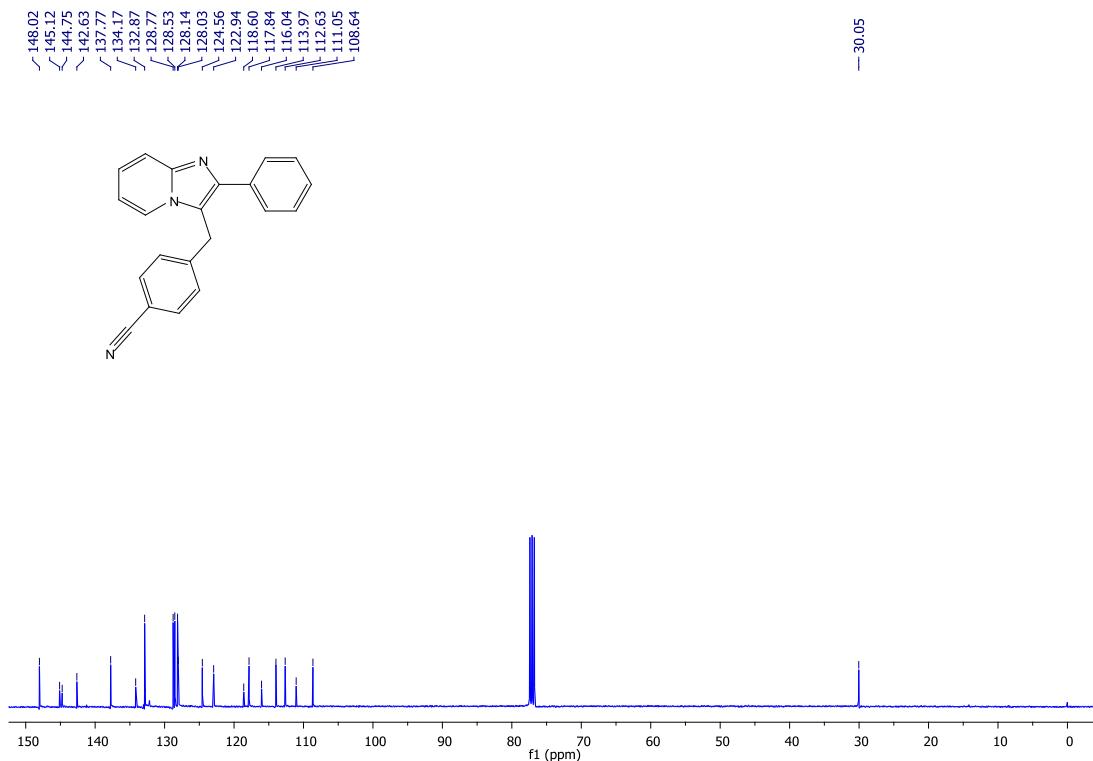
**Figure S23.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 3-(4-methoxybenzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4m**).



**Figure S24.** <sup>13</sup>C NMR (75 MHz, CDCl<sub>3</sub>) of 3-(4-methoxybenzyl)-2-phenylimidazo[1,2-*a*]pyridine (**4m**).



**Figure S25.** <sup>1</sup>H NMR (400 MHz, CDCl<sub>3</sub>) of 4-((2-phenylimidazo[1,2-*a*]pyridin-3-yl)methyl)benzonitrile (**4n**).



**Figure S26.** <sup>13</sup>C NMR (100 MHz, CDCl<sub>3</sub>) of 4-((2-phenylimidazo[1,2-*a*]pyridin-3-yl)methyl)benzonitrile (**4n**).