Supporting Information

**Title:** Copper-catalyzed Aerobic Cyclizations of Tetrahydroisoquinolines with Bromoketones and Alkenes for the Synthesis of 5,6-Dihydropyrrolo[2,1-\(a\)]isoquinolines

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1. Copies of \(^1\)H NMR and \(^{13}\)C NMR spectrum of \(\textbf{4}\) S2
2. Copies of \(^1\)H NMR and \(^{13}\)C NMR spectrum of \(\textbf{5}\) S21
3. Copies of \(^1\)H NMR and \(^{13}\)C NMR spectrum of \(\textbf{7}\) and \(\textbf{9}\) S55
4. Copies of \(^1\)H NMR spectrum of \(\textbf{I}\) S62
5. Crystal structure of \(\textbf{4a}\) S63
The image contains a diagram of a chemical structure labeled as 5d. The structure includes a chlorine atom, a benzene ring, and a functional group with a nitrogen and oxygen atom. The diagram also shows a spectrum with ppm values on the x-axis and intensity on the y-axis, indicating the chemical shifts and intensities in the material. The spectrum includes various peaks and annotations with specific values.
5h
$S42$
$^{13}C$ NMR spectrum of compound 5p.
Figure 1. Crystal Structure of 3a (CCDC 1586761)