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論文摘要集

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Synthesis of Oxoaporphine Alkaloids

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Oxoaporphine, an isoquinoline-type alkaloid, is biological active with anti-malaria effects; anti-bacterial and anti-cancer activities. Due to its wide application, the total synthesis of oxoaporphine has attracted our attention. We successfully synthesized a series of oxoaporphine alkaloids via oxidative photocyclization of α -hydroxy-(2'-bromobenzyl)-isoquinoline. The key photocyclization precursors could be obtained easily from α -cyano-(2'-bromobenzyl)-isoquinolines, condensed 1-iodoisoquinolines with (2-bromophenyl)-acetonitriles, via oxidative decyanation and reduction. The substituent effects on the key oxidative photocyclization were also discussed herein.