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Supplementary Material

Total Synthesis of Nothapodytine B and Mappicine

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Methyl 3-Methylquinoline-2-carboxylate (6). This material was prepared following the procedure described in detail by Danishefsky and coworkers.¹⁰ A solution of 2-aminobenzaldehyde (8.0 g, 66 mmol), 2-oxobutyric acid (8.0 g, 78.4 mmol), and NaOMe (7.0 g, 129.6 mmol) in 300 mL of MeOH was warmed at reflux under N₂ for 12 h. After cooling, 7 mL (132.0 mmol) of concentrated H₂SO₄ was cautiously added, and the resultant solution was warmed at reflux under N₂ for 24 h. After neutralization with 4% aqueous NaHCO₃ (8 mL), the reaction mixture was extracted with EtOAc (3 × 80 mL), and the organic layer was dried (Na₂SO₄) and concentrated under reduced pressure. Chromatography (SiO₂, 15% EtOAc–hexane) afforded **6** (9.9 g, 13.3 g theoretical, 74%) as a yellow oil: ¹H NMR (CDCl₃, 400 MHz) δ 8.25 (d, 1H, *J* = 8.6 Hz), 7.86 (s, 1H), 7.73 (ddd, 1H, *J* = 1.3, 6.8, 8.2 Hz), 7.67 (d, 1H, *J* = 8.2 Hz), 7.56 (ddd, 1H, *J* = 1.3, 6.8, 8.1 Hz), 4.13 (s, 3H), 2.65 (s, 3H); ¹³C NMR (CDCl₃, 100 MHz) δ 165.8, 148.2, 144.7, 137.0, 129.3, 128.8, 128.4, 127.9, 127.2, 125.9, 51.9, 18.8; IR (film) ν_{\max} 2951, 1725, 1492, 1438, 1298, 2208, 1139, 1074, 841, 752 cm⁻¹; FABHRMS (NBA–NaI) *m/e* 202.0864 (M+H⁺, C₁₂H₁₁NO₂ requires 202.0868).

Anal. Calcd for C₁₂H₁₁NO₂: C, 71.63; H, 5.51; N, 6.96. Found: C, 71.26; H, 5.81; N, 6.74.