Supplementary Material

The enantiomeric purity of (R)-1b was determined by chiral GC analysis after acetylation. GC: CP-Chirasil-DEX CB (Varian, USA, φ 0.25 mm × 25 m), Inj. and Det. 280°C, Col. 110°C for 2 min, 2°C min⁻¹ to 126°C for 2 min, 5°C min⁻¹ to 160°C, (R) 13.03 min, (S) 13.44 min.

The optical rotation of (R)-1b was \([\alpha]_D^{25} : +22.3\) (c 5.0, CHCl₃), 99.6% ee, (R) \{lit. \([\alpha]_D^{25} : +20.1\) (c 8.24, CHCl₃), 96% ee, (R)\}.

The product, (R)-1b, gave the following NMR, MS and IR data:

\(^1\)H NMR (500 MHz, CDCl₃): \(\delta\) 1.29 (t, 3H, \(J=7.1\) Hz), 2.59–2.67 (m, 2H), 3.20 (br s, 1H), 3.59–3.64 (m, 2H), 4.19 (q, 2H, \(J=7.1\) Hz), 4.24–4.29 (m, 1H).

\(^1\)C NMR (100 MHz, CDCl₃): \(\delta\) 14.1, 38.6, 48.2, 60.5, 67.9, 171.8.

MS (m/z): M⁺ 167, 123, 121, 117, 89, 85, 79, 71, 60, 43.

IR (KBr): 3452.5, 2983.5, 2909.1, 1729.5, 1375.6, 1306.4, 1259.6, 1189.4, 1093.1, 1032.7 cm⁻¹.
Figure 1 $^1$H NMR spectrum of (R)-1b

Reference