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## SUPPORTING INFORMATION

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"Expedient five-step synthesis of SIB-1508Y from natural nicotine"

I. General Experimental Methods-----(S2)

II. <sup>1</sup>H and/or <sup>13</sup>C NMR spectra for **6-8** and **9-12**.

<b>6</b> , <sup>1</sup> H, <sup>13</sup> C	(S3, S4)
	(S5, S6)
- )	-(S7)
	(S8, S9)
	(S10, S11)
	(S12, S13)
	(S14, S15)
<b>12</b> , <sup>1</sup> H, <sup>13</sup> C	(S16, S17)

Total pages of supporting information: (17).

## **General Experimental Methods**

All reactions were performed in oven or flame-dried glassware under a argon atmosphere and stirred magnetically. THF, Et<sub>2</sub>O and toluene were distilled from sodium/benzophenone ketyl prior to use. Triethylamine, diisopropylamine and methylene chloride were distilled from calcium hydride and stored under argon over 4Å molecular sieves. *n*-Butyllithium was titrated against diphenylacetic acid according to the procedure of Kofron and Baclawski.<sup>i</sup> Other reagents and solvents from commercial sources were stored under argon and used directly. Melting points were measured on a capillary melting point apparatus and are uncorrected. Radial preparative layer chromatography (radial PLC) was performed using glass plates coated with 1, 2 or 4 mm layers of Kieselgel 60 PF254 containing gypsum. High-resolution mass spectral analysis (HRMS) was performed at North Carolina State University. Optical rotations were measured on a precision automated polarimeter. NMR spectra were recorded on a 300 or 400 MHz spectrometer. Chemical shifts are reported in ppm. Coupling constants (J values) are reported in Hertz. IR spectra were recorded on a FT-IR spectrometer. Chemical shifts are in ppm units with TMS (0.0 ppm) used as the internal standard for <sup>1</sup>H NMR spectra and the CDCl<sub>3</sub> absorption of 77.23 ppm for  $^{13}$ C NMR.

(i) Kofron, W. G.; Baclawski, L. M. J. Org. Chem. 1976, 41, 1879.





























