Supporting Information

RCM Approaches Toward the Diastereoselective Synthesis of Vicinal *trans*-Diaminocyclitols from *L*-Serine

Xin Cong, 1,2 Qing-Jiang Liao2 and Zhu-Jun Yao1*

¹State Key Laboratory of Bioorganic and Natural Products Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Scieneces, 354 Fenglin Road, Shanghai 200032, China. ²Department of Medicinal Chemistry, China Pharmaceutical University, 24 Tongjiaxiang Road, Nanjing 210009, China.

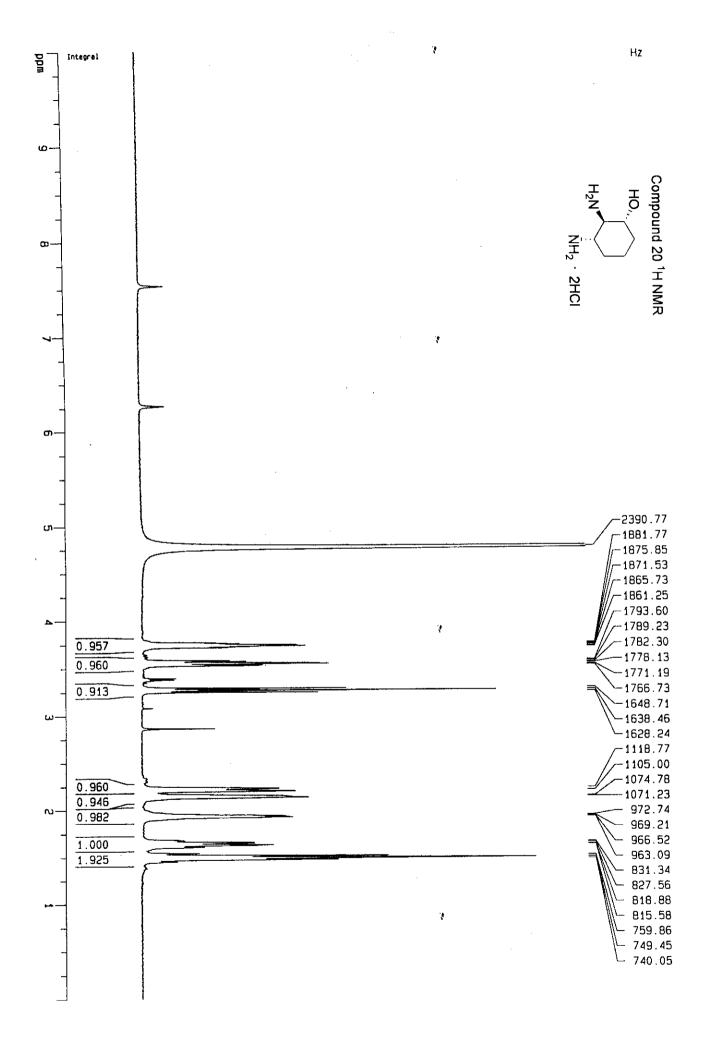
Fax: +8621 6416 6128; E-mail: yaoz@mail.sioc.ac.cn

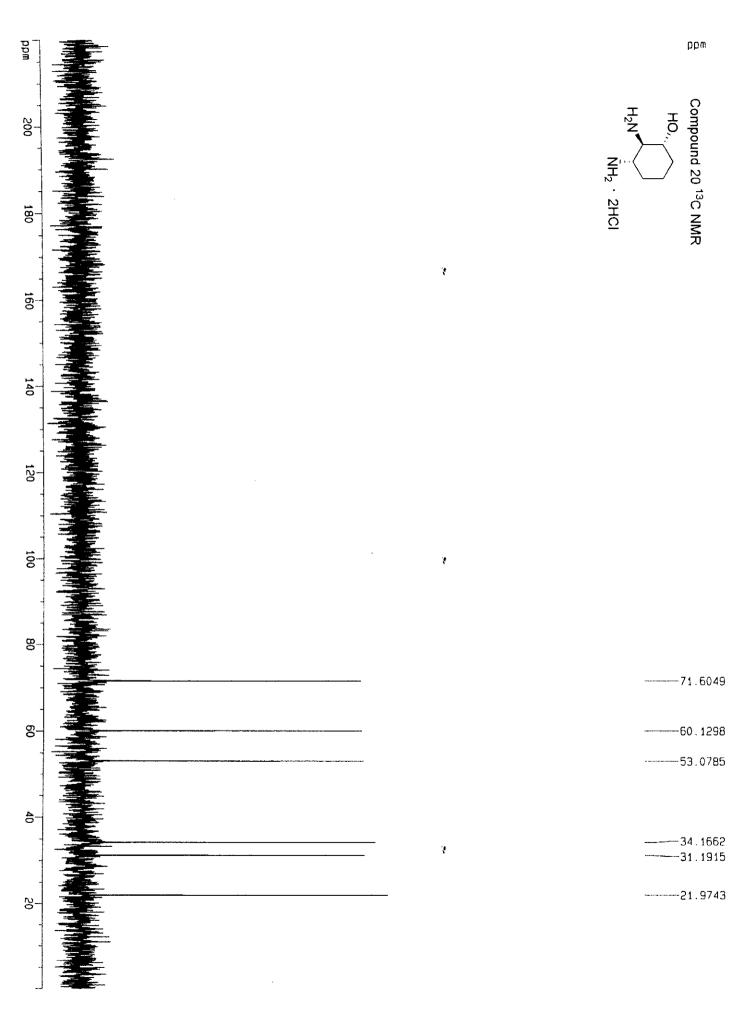
List of Contents

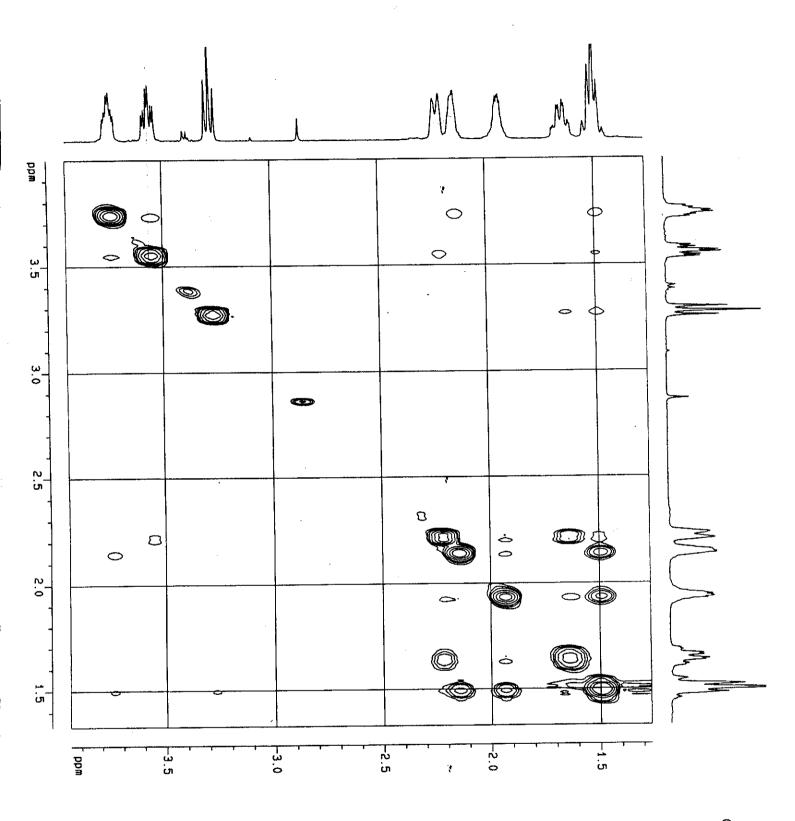
- 1. General Experimental Section (Page S-2)
- 2. The ¹H NMR and ¹³C NMR copies of compounds **1-4**, **20** and NOESY copies of compounds **1-3**, **20** and **28** (From page S-3 to page S-17).

General Experimental Section

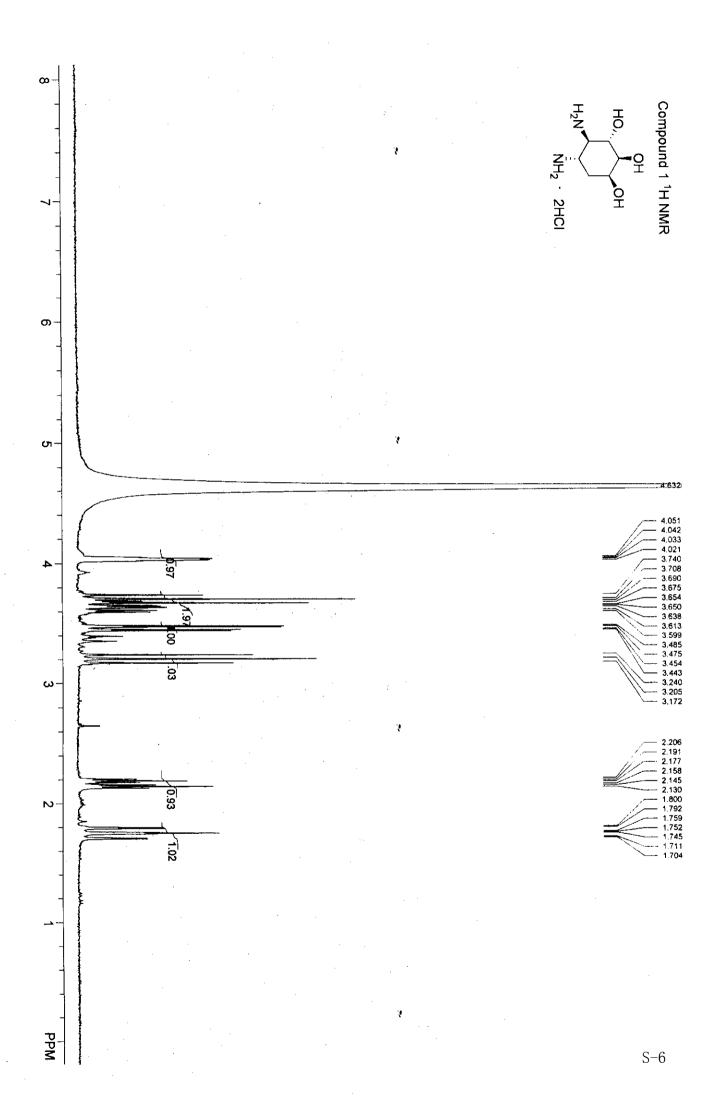
All reactions were carried out under argon or nitrogen in oven-dried glassware using standard gastight syringes, cannulas, and septa. Solvents and reagents were purified and dried by standard methods prior to use. Optical rotations were measured at room temperature. IR spectra were recorded on an FT-IR instrument. 1 H NMR spectra were recorded at 300 MHz and are reported in parts per million (δ) downfield relative to TMS as internal standard, and 13 C NMR spectra were recorded at 75 MHz and assigned in parts per million (δ). Flash column chromatographies were performed on silica gel (10-40 μ m) using mixtures of petroleum ether and ethyl acetate as the eluents.

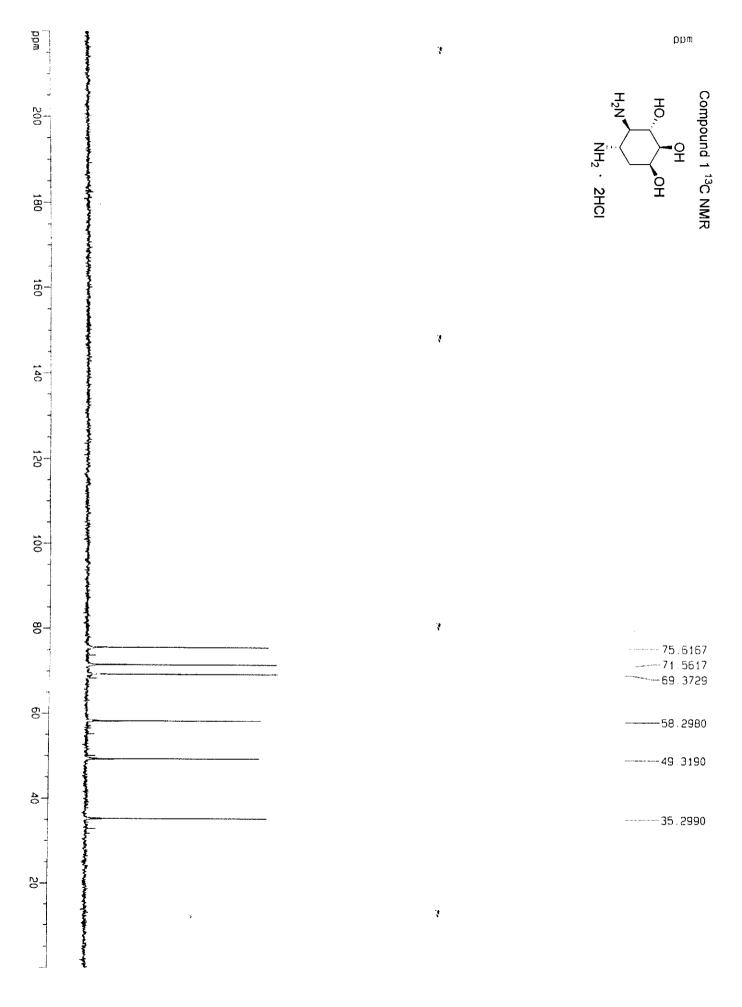


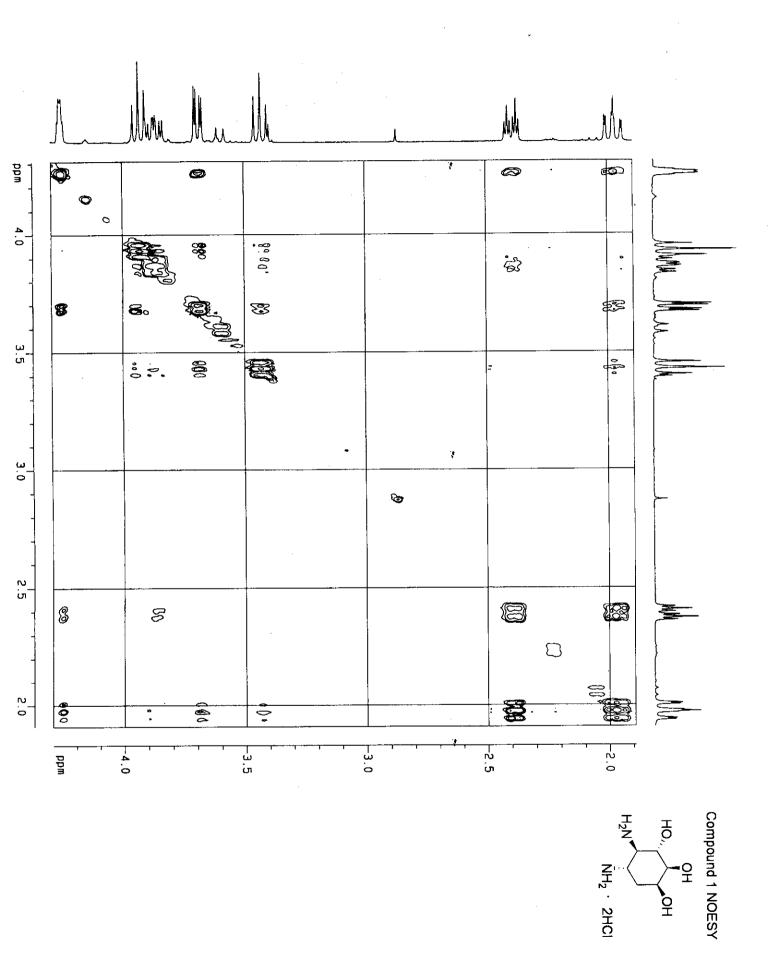




Compound 20 NOESY
HO,,
H2N NILL : 2HC







*

S-8

