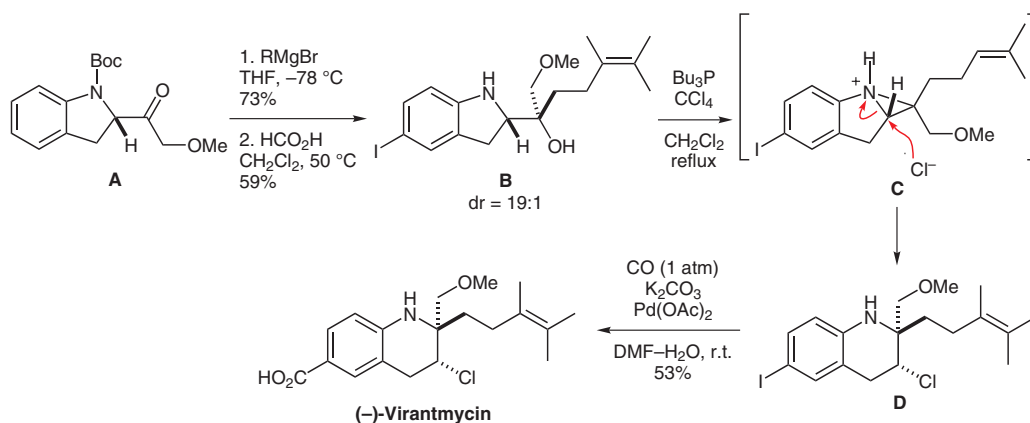


M. ORI, N. TODA, K. TAKAMI, K. TAGO, H. KOGEN* (SANKYO CO., TOKYO, JAPAN)
Stereospecific Synthesis of 2,2,3-Trisubstituted Tetrahydroquinolines: Application to the Total Syntheses of Benzastatin E and Natural Virantmycin
Tetrahedron **2005**, *61*, 2075-2104.

Total Syntheses of Benzastatin E and Virantmycin



Significance: The first synthesis of the natural (-)-antipode of Virantmycin is reported. Virantmycin is a potent inhibitor of RNA and DNA viruses. It is isolated from *Streptomyces nitrosporeus*. The related benzastatins inhibit glutamate toxicity and lipid peroxidation.

Comment: The difficult stereoselective construction of a chiral quaternary center was accomplished by a stereospecific rearrangement of an α,α -disubstituted indoline-2-methanol **B** via aziridinium ion **C**.