

J. Org. Chem., 47 (18), 3566–3569 (1982)

Synthesis of 6-Thiaellipticine and Related Compounds via
Heterocyclic *o*-Quinodimethane Intermediates

Shinzo Kano, Naoki Mochizuki, Satoshi Hibino, and
Shiroshi Shibuya

Tokyo College of Pharmacy

複素環上の *o*-Quinodimethane 中間体を経由する 6-Thiaellipticine
および関連化合物の合成

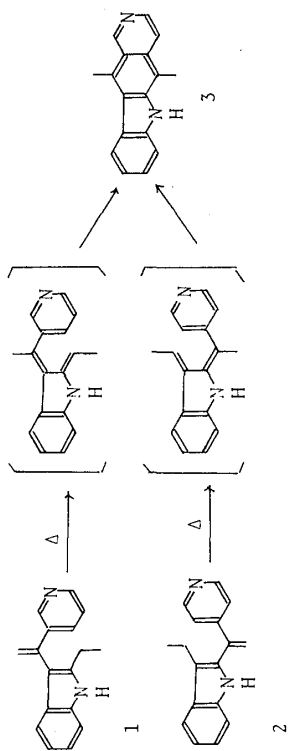
加納慎蔵, 望月直樹, 日比野 侗, 渋谷 皓

東京薬科大学

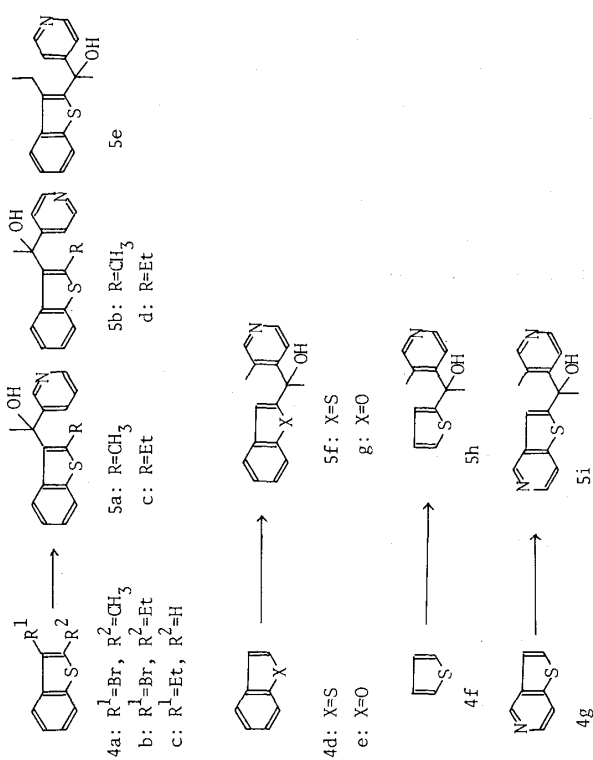
ABSTRACT

Indole-2,3-quinodimethane intermediates from (1) and (2) by way of thermal suprafacial [1,5] sigmatropy have been applied to the synthesis of the antitumor carbazole alkaloid, ellipticine (3) (Scheme I). We have now used this approach for the synthesis of 6-thiaellipticine and congeners as shown in Scheme II and III. The thermal cyclization have been examined about a series of tertiary alcohols in the expectation that dehydration followed by sigmatropy would occur to yield the cyclization products. This would provide a short synthesis of some linear polynuclear heterocyclic compounds.

Scheme I



Scheme II



Scheme III

