Supplementary Materials

Synthesis of 1-substituted cis-bicyclo[3.3.0]octane-3,7-dione derivatives as potential precursors of polyquinanes

Pelayo Camps,* José A. Fernández, and Santiago Vázquez

Laboratori de Química Farmacèutica (Unitat Associada al CSIC), Facultat de Farmacia, Universitat de Barcelona, Av. Diagonal 643, E-08028, Barcelona, Spain
E-mail: camps@ub.edu

Table of Contents

1. Scheme S1. Possible pathways from 17 and 18 to the side product 21 S2
A possible explanation for the formation of enone 21 from side products of the reaction of 17 and 18 is shown in Scheme 1. Compounds 36 and 37 have been proposed as intermediates in the formation of compounds 19 and 20 from 17 and 18. When compound 37 is submitted to the Krapcho conditions it might be transformed into enones 38–40 by hydrolysis and decarboxylation, dehydration and C=C isomerization. Enones 39 and 40 might experience a kind of vinylogous retro-Claisen reaction leading to ketoester 21.

Scheme S1. Possible pathways from 17 and 18 to the side product 21. (i) NaHCO₃, H₂O, r.t., 4 d. (ii) NaCl, H₂O, DMSO, 180 °C, 4 h.

References