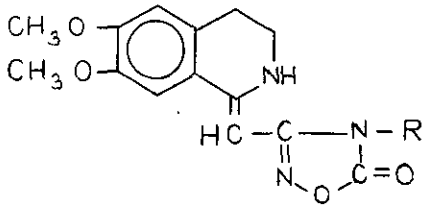
SYNTHESIS AND REARRANGEMENT REACTIONS OF 3-(1,2,3,4-TETRAHYDRO-1-ISOQUINOLINE-METHYLENE)-Δ^2-1,2,4-OXADIAZOLIN-5-ONES

Kálmán TAKÁCS

Research Dept. CHINOIN Pharmaceutical and Chemical Works

H-1325 P. O. B. 110, Budapest, Hungary

Continuing our interest in isoquinoline chemistry the synthesis and rearrangement reactions of compounds I have been investigated.



I

R=H, alkyl, aralkyl

Synthesis of compounds I was carried out in 4 or 5 steps starting from 3,4-dimethoxy-phenethylamine using Bischler-Napieralski cyclisation in the last step.

Compounds I undergo rearrangements of two different type depending on the substituents R of I and on the reaction conditions used. The rearrangements were accompanied by decarboxylation and pyrazolo- or imidazo/5,1-a/-isoquinolines were selectively formed.

The details of reactions and structure proof of the products will be presented.