

PP33. CHEMICAL MODIFICATION OF BUCHARINE ALKALOID

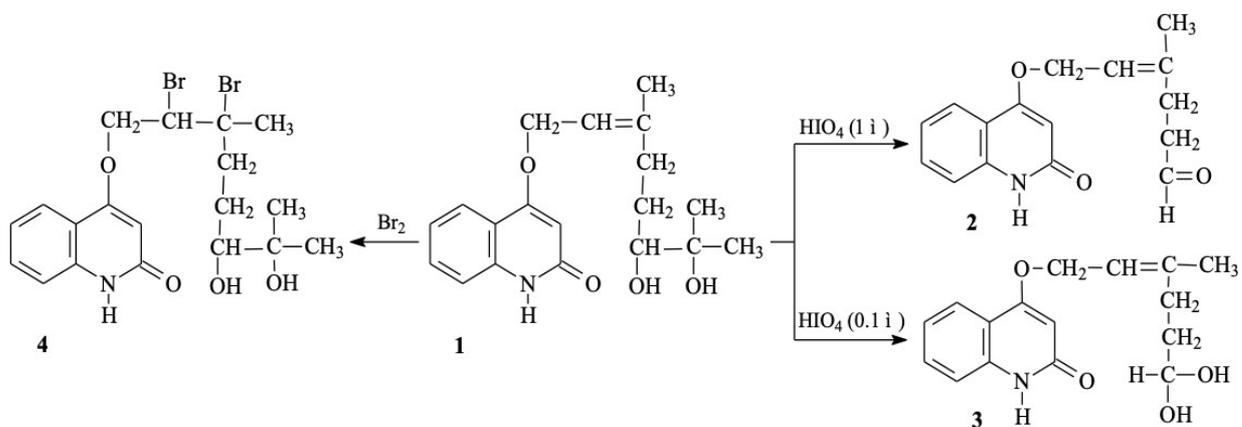
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Among nitrogen-containing heterocyclic compounds, quinoline alkaloids are important heterocyclic compounds. Among the quinolines, Grepafloxacin is used in the treatment of bacterial infections, and Vinorelbine is used in the treatment of breast cancer and lung cancer. Quinoline alkaloids are found in *Dictamnus* and *Haplophyllum* plants growing in the flora of Uzbekistan. Chemical modification of bucharaine alkaloid isolated from *Haplophyllum bucharicum* plant was carried out. It was found that 2 different products are formed depending on the concentration of periodic acid during oxidation of bucharaine with periodic acid. When oxidized with 0.1 M periodic acid, hyminal diol 3 was formed, when oxidized with 1 M periodic acid, aldehyde 2 was formed. Bromination of bucharane with molecular bromine in chloroform at room temperature gave dibromine product 4.



The structure of the obtained substances was proved on the basis of IR, mass-, ¹H and ¹³C NMR spectra.