عنوان مقاله:

Synthesis of New Quinoline-Y-Carboxylic Acid Compounds and Their Antimicrobial Activity Investigation

محل انتشار:

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خلاصه مقاله:

In this study, synthesis of novel Mannich bases, Schiff bases, and heterocyclic compounds starting from quinoline-Y-carboxylic acid has been achieved and their antimicrobial activities were studied. The first step involved the synthesis of compound E\ from reaction of Y-quinolinyl chloride with hydrazine. In the second step, compound E\ was prepared from the reaction of E\ with CS\ in an alkaline medium. The third step included the preparation of compounds E\ -E\ from the reaction of E\ with different amines. In the fourth step, compound E\ was synthesized from the reaction of compound E\ with ethyl-Y-chloroacetate in the presence of potassium carbonate. In the fifth step, compound E\ was prepared from the reaction of compound E\ with hydrazine in absolute ethanol. In the sixth step, compounds E\ -E\ Y\ were prepared from a condensing reaction between compound E\ and different aromatic aldehydes. In the seventh step, compounds E\ -E\ A\ were prepared, respectively, from the reaction of thioglycolic acid and sodium azide with compounds E\ -E\ Y\ .-E\ Y\ .

Finally, the prepared compounds were characterized by FT-IR and \ H-NMR spectroscopy, and their antimicrobial activities were studied

كلمات كليدى:

Mannich bases, Thiol-oxadiazole, thiazolidinone, FT-IR, \HNMR, Antimicrobial activities

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