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Synthesis and antimicrobial evaluation of a new class of Pyrido[1,2-a]thieno[3,2-e]pyrimidine

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ultisubstituted 2-aminothiophenes 1a-c can be readily cyanoacylatedvia reaction with cyanoacetic acid in presence of acetic anhydride under microwave irradiation to form the corresponding cyanoacetamides2a-c, which condensed with DMF-DMA to form the corresponding enamines3. Moreover thecyanoacetamides2a-c reacted with a variety of arylidenmalononitrileto afford novel pyrido[1,2-a]thieno[3,2-e]pyrimidine derivatives4a-o. In addition the enamines3 reacted with malononitrile to afford the pyrido[1,2-a]thieno[3,2-e]pyrimidine derivatives5a,b. The X-ray crystallographic analyses of seven products could be obtained thus establishing with certainty the proposed structures in this work. Most of the synthesized compounds in this investigation were tested and evaluated as antimicrobial agents; the results of biological evaluations demonstrate that members from these compounds have promising antimicrobial activities against Gram negative bacteria, Gram positive bacteria.

Biography

HaiderBehbehani has completed his PhD at the age of 31 years from Bath University. He is a member of the Royal Society of Chemistry and American Chemical Society from 1996- to date. He is the head of Chemistry Department, Faculty of Science, KuwaitUniversity. He has published more than 30 papers in reputed journals and has been serving as an reviewer for may journals

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