



Synthesis, Characterization and Evaluation of Antibacterial Activity of Several New pyromillitimides Containing Benzothiazole Moiety

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ABSTRACT

Starting from substituted-2-aminobenzothiazole a series of new pyromillitimides linked to benzothiazole moiety were synthesized by direct reaction of equimolar amounts of substituted-2-aminobenzothiazoles with pyromillitic anhydride in glacial acetic acid under reflux conditions for eight hours ¹HNMR and ¹³C NMR spectral data which were in agreement with the proposed ones. Finally antibacterial activity of some of the prepared new cyclic imides were evaluated against two types of bacteria and the results showed that the most of the tested imides possess good biological activity against these organisms.

Keywords: Pyromillitimides, Benzothiazole, Cyclic imides.
