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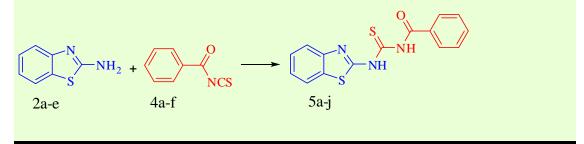
Synthesis, Characterization, In Vitro Antibacterial Activity of Some Novel N-{(6-Substituted-1,3-benzo[d]thiazol-2yl)carbamothioyl}-2/4-substituted benzamides

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Abstract:A series of novel N-{(6-substituted-1,3-benzo[d]thiazol-2-yl)carbamothioyl}-2/4-substituted benzamides**5a-j**were synthesized by the reaction of 2-aminobenzothiazoles **2a-e**with appropriate benzoyl isothiocyanates**4a-f**. The structures of all newly synthesized compounds were confirmed by chemical tests, elemental (C, H, N and S) and spectral (IR, ¹H NMR, ¹³C NMR and mass) analysis.All of them were screened for their antibacterial activity against gram positive and gram negative bacteria showing promising results, and have shown moderate to potent antibacterial activity comparable to standard drug.

Keywords: Benzothiazoles, 2-Aminobenzothiazoles, Benzamides, Benzoylisothiocyanates.



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