



One pot Synthesis and Antibacterial activity of 3-substituted derivatives of 14,15-diimino-10-nitro-benzothiazolo[2,3-*b*]pyrimido[5,6-*e*]pyrimido[2,1-*b*][1,3]benzothiazole

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Abstract: 3-cyano-4-imino-2-methylthio-8-nitro-4H-pyrimido[2,1-*b*][1,3]benzothiazole(I) independently on condensation with 2-amino-6-substituted benzothiazole in the presence of DMF and catalytic amount of K_2CO_3 reflux for 5-6 hours to yield 3-substituted derivatives of 14,15-diimino-10-nitro-benzothiazolo[2,3-*b*] pyrimido[5,6-*e*] pyrimido[2,1-*b*][1,3]benzothiazole(III-a-e). The synthesized compounds were characterized by elemental analysis and spectral data.

Key Words :3-cyano-4-imino-2-methylthio-8-nitro-4H-pyrimido[2,1-*b*][1,3]benzothiazole, DMF, Potassium carbonate.

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