

Short Note

N-[1-(2,5-Dimethyl-3-thienyl)ethylidene]-1,3-benzothiazol-2-amine

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Abstract: The title compound, *N*-[1-(2,5-dimethyl-3-thienyl)ethylidene]-1,3-benzothiazol-2-amine has been synthesized by condensation of 2-aminobenzothiazole and 3-acetyl-2,5-dimethylthiophene in ethanol. The structure of this new compound was confirmed by elemental analysis, IR, ¹H-NMR, ¹³C-NMR and EI-MS spectral analysis.

Keywords: 2-aminobenzothiazole; condensation; 3-acetyl-2,5-dimethylthiophene

Heterocyclic compounds containing nitrogen and sulphur exhibit a wide variety of biological activities such as antibacterial [1], antifungal [2], antitumor [3], or anti-HIV activity [4]. The thiazole ring dramatically increases the diversity of certain biological properties such as antibacterial [5], antiviral [6], and antitubercular [7] activities. In this paper, we report the synthesis of a novel compound by condensation of 2-aminobenzothiazole and 3-acetyl-2,5-dimethyl thiophene.

