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## CHEMISTRY IN DRUG DISCOVERY &amp; DESIGNING

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**Synthesis and characterization of some new ethyl-2-amino benzothiazole-6-carboxylate derivatives****Ihmood K H Jebur, Hamid M Saleh and Layth W Abdullah**  
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In this research we chosen a number of heterocyclic compounds 4-amino benzoate (procaine) (A1), the ester was synthesized by esterification of 4-amino benzoic acid with ethanol, this compound was then treated with potassium thiocyanate followed by oxidative cyclization of the resulted thiourea with bromine solution to afforded ethyl-2-aminobenzothiazole-6-carboxylate (A2). This compound was further treated with some substituted benzaldehyde yielding the Schiff bases (A3 a-d). Compound (A2) was also treated with acetic anhydride giving the corresponding N-(ethyl-2-amino benzothiazolyl-6-carboxylate acetamide (A4). Compound (A2) was allowed to react with hydrazine hydrate afforded 2-benzothiazolyl-6- hydrazido acetamide (A5), which was then condensed with substituted aromatic aldehydes affording 2-acetamido-6-benzothiazolyl-carbonylaryl hydrazine as a final product (A6 a-d). All the synthesized compounds were characterized by IR, some selected samples were checked by their elemental analysis, (CHN) and some of them by <sup>1</sup>H-NMR method.

**Biography**

Ihmood K H Jebur is an Assistant Professor in Organic Chemistry at Tikrit University, Iraq. He focuses in area of research on heterocyclic chemistry. He has published many papers in this field.

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