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# Synthesis and Characterization Of two Novel ThiofibratesBearing 1,3-Benzoxazole Moiety

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**Abstract:**In the present study two novel thiofibrates ethyl-2-(1,3-benzoxazol-2-ylsulfanyl)-2-methyl propionate and ethyl2-[(7-amino-5-chloro-1,3-benzoxazol-2-yl)sulfanyl]-2- methyl propionate are synthesized by treating 2-mercapto benzoxazoles and 7-amino-5-chloro-1,3-benzoxazole-2-thiol respectively with ethyl 2-bromo isobutyrates in presence of anhydrous potassium carbonate. The required2-mercapto benzoxazoles is synthesized by reacting 2-amino phenol with carbon disulphide in presence potassium hydroxide and acetic acid. Whereas, 7-amino-5-chloro-1,3-benzoxazole-2-thiol is obtained from the reaction of 2,6-diamino-4-chloro phenol. The synthesized compounds were characterized by physical data (melting point, $R_f$) and spectral studies (IR, $^1$H NMR). The spectral characterization study proves the fact that the assigned structures are in good agreement.

**Keywords:**1,3-benzoxazole, Bioisosteres, Thiofibrates, ethyl 2-bromo isobutyrates, Hyperlipidaemia

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