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SYNTHESIS AND ANTIBACTERIAL ACTIVITY OF NOVEL BENZOFURAN ESTER DERIVATIVES

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Methyl (*E*)-3-[2-(4-hydroxy-3-methoxy phenyl)-7-methoxy-3-methoxycarbonyl-2,3-dihydro-1-benzofuran-5-yl] prop-2-enoate constitute a new group of antimitotic and potential anticancer agents that inhibit tubulin polymerization. It is a benzofuranoid type neolignan that have been synthesized and diversified to its respective ester (Pyridine/DCM/Acetyl/Benzoyl chloride) derivatives using conventional method and characterized by ^{1}H NMR, IR, elemental analysis and mass spectral data. These synthesized compounds were screened for their antibacterial activity against Gram positive and Gram negative cultures. Few of them possess promising antibacterial activity.