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### Synthesis and *in-vitro* biological Activity some novel 3-Indole propionic acid derivatives

Hossein Mostafavi

Department of Biology, Faculty of Natural Science, University of Tabriz, Tabriz, Iran

A diversity of biological activities and pharmaceutical uses have been attributed to 3-Indole propionic acid derivatives such as antibacterial, anticancer, Alzheimer's disease(1-3). A series of 3-Indole propionic acid were synthesized and their structure confirmed by FT-IR, <sup>1</sup>HNMR, <sup>13</sup>CNMR, elemental analysis. *In vitro* biological activity of compounds was evaluated by employing 24 hours cultures of *Escherichia coli* ATCC (8739), *Klebsiella* sp. ATCC (700834), *Bacillus subtilis* ATCC (6051) and *Staphylococcus aureus* ATCC (6538). Antibacterial susceptibility tests were done by use of the paper disc diffusion method on Mueller Hinton agar (Merck). Gentamicin was standard reference antibiotics. The inhibition zone was determined by measuring the minimum dimensions of the zone of no microbial growth around the disc. The Minimum Inhibitory Concentrations (MIC) were determined by serial dilution technique according to CLSI. The MIC values of active anti-bacterial compounds 2 and 4 were in the range of 3.25 to 6.5 µg/ml concentrations against common bacterial infection causing species.