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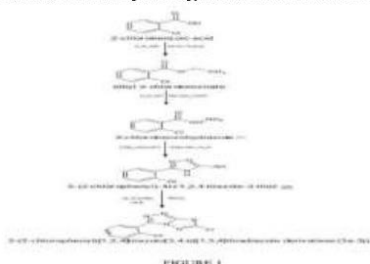
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(57) Abstract :
The present invention relates to the Series of substituted Synthesis of 3-phenyl ([1,2,4] triazolo[3,4-b] [1,3,4] thiadiazole derivatives (3a-j) containing 1,3,4-Thiadiazole moiety were designed and synthesized by conventional method and microwave as a green chemistry method. Synthesized compounds were docked with receptors of lipoxigenase-3 soybean complex for anti-inflammatory activity (PDB Code- 4tuk), potent inhibitors of NUDTs silence hormone signaling in Brest cancer (PDB Code-3k59) for anti-cancer activity Compounds 3g showed potent activity against receptors of lipoxigenase-3 soybean complex for anti-inflammatory activity (PDB Code-4tuk), Compounds 3c showed potent activity against inhibitors of NUDTs silence hormone signaling in Brest cancer (PDB Code-3k59) for anti-cancer. These synthesized 3a-j compounds were confirmed through spectral characterization using IR, and 3c, and 3g, confirmed by IR, NMR, and MASS spectroscopy. Result indicated that these compounds showed promising anti-cancer activity and anti-inflammatory activity in comparison to standard drugs was used.



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