

عنوان مقاله:

Synthesis of Novel Series of ۱-(۶-Hydroxy-۴-(۱H-indol-۳-yl)-۳,۶-dimethyl- ۴,۵,۶,۷-tetrahydro-۱H-indazol-۵-yl)ethan-۱oneas Evaluations of their Antimicrobial Activity with Insilco Docking Study

محل انتشار:

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خلاصه مقاله:

This research study discusses the silico design, synthesis, and biological evaluation of novel effective phenyl, indole, Ψ,F-dimethyl substituted F,Δ,۶,Y-tetrahydro-1H-indazole derivatives. The novel multi- substituted indazole derivatives (ΔΑ-ΔJ) was synthesized from the treatment of hydrazine hydrates in MeOH/H+ with multi substituted clohexanone derivatives (Fa-Fj). The final scaffold was characterized with the help of spectroscopic data such asIR, 1H NMR, 1ΨC NMR, and mass spectra. The compound ΔA, ΔD, and ΔF shows excellent antibacterial activity and the compounds ΔB, ΔC, ΔH ΔI and ΔJ exhibited moderate antibacterial activity against the S. aureus, Bacillus subtilis and E.Coli. Finally, the molecular docking studies showes that the compound ΔD and ΔF scaffolds display excellent bonding .mode of interactions with the active site of DNA gyrase 1KZN enzyme

کلمات کلیدی:

Dihydro-multi substituted indazole, NHY-NHY-HYO, Ph-NHY-NHY Molecular docking, Antimicrobial activity

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