Synthesis and Molecular Docking Study of Novel Pyrazolo[3,4-b]quinoline Derivatives

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ABSTRACT
Phenylpyrazolo[3,4-b]quinolin-3-ols were prepared by using 2-chloroquinoline-3-carboxylic acids and phenyl hydrazine hydrochlorides in the presence of POCl₃. One of the phenylpyrazolo[3,4-b]quinolin-3-ols underwent chlorination (9). To check binding modes and binding affinity of synthesized compounds were docked with the active sites of human telomerase (hTERT). The results indicated that compound 4b has good affinity to the active site residue of human telomerase, least energy (-23.012 score).

Keywords: Phenylpyrazolo[3,4-b]quinolin-3-ols, POCl₃, Molecular Docking Studies.