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(57) Abstract :

The present invention pertains to a process for synthesis 1,2,4-triazole derivatives with anticancer activity. Nineteen new 1,2,4-triazole derivatives were synthesized and are described. Using the MTT test, the cytotoxic properties of the synthesized compounds were assessed against the MCF-7, Hela, and A549 cell lines, three human cancer cell lines. The cytotoxic activity of compounds 7d, 7e, 10a, and 10d against the Hela cell line was promising and was lower than 12 M. It was reassuring to see that the majority of the produced compounds exhibit appropriate selectivity against normal and cytotoxic malignant cell lines when the safety of these compounds was also assessed on MRC-5, a normal cell line. The present research may open the path for the creation of new anticancer drugs with excellent effectiveness and fewer side effects, such as 1, 2, 4-triazole-pyridine.

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