



Synthesis, Characterization and anticancer study of 1-(1-(2-chloro-4-nitrophenyl)-5-methyl-1H-1,2,3-triazol-4-yl)ethanone

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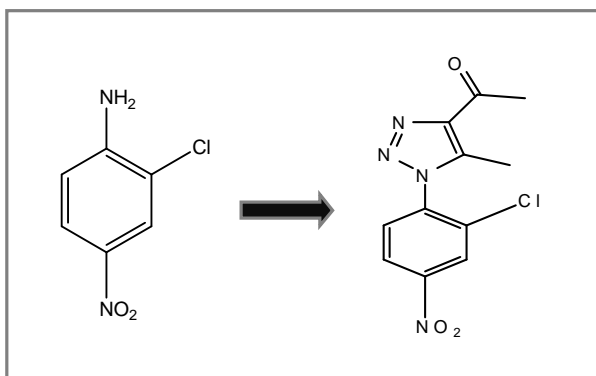
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ABSTRACT

In an effort to develop anticancer agents, in the present study 1,2,3 triazole linked ketone (1-(1-(2-chloro-4-nitrophenyl)-5-methyl-1H-1,2,3-triazol-4-yl)ethanone) was synthesized by taking 2-chloro-4-nitro aniline as a starting material. The above compound was synthesized in a good yield and characterized using FT-IR, LCMS, ¹H NMR and ¹³C NMR spectral studies. The synthesized compound showed promising cytotoxicity on A549 lung adenocarcinoma cells, as evaluated using MTT assay.

Graphical Abstract



Keywords: 2-chloro-4-nitro aniline, 1,2,3 triazoles, Anticancer activity, MTT assay.