

## Abstract

An attempted synthesis of 5-aryl-6,7-dihydrodibenzo[*b,j*][1,10]phenanthroline derivatives from 2,3-dihydroacridin-4(*1H*)-ones with 2-aminocarboxylic acid derivatives in presence of phosphorus oxychloride at 130°C yielded a novel class of quin[1,2*b*]acridine derivatives. The newly synthesized compounds showed a better cytotoxic activity against HeLa and MCF-7 cell lines during the structure–activity relationship

(SAR) studies. To discover with the interactions of these molecules, we carried out molecular docking studies using the human protein kinase CK2 inhibitors. The https://www.tandfonline.com/doi/abs/10.1080/10406638.2019.1689515

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