MH P 7

Uticaj fenil grupe na antitumorsku aktivnost konformaciono krutih analoga goniofufurona

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Defenilovani, konformaciono kruti analog goniofufurona (**3**) sintetzovan je u tri faze polazeći iz komercijalno dostupne D-ksiloze i ispitana je njegova aktivnost prema nekoliko malignih i jednoj normalnoj ćelijskoj liniji. U cilju utvrđivanja uticaja fenil-grupe na antitumorsku aktivnost, dobijene vrednosti su upoređene sa aktivnostima odgovarajućih analoga sa fenil-grupom (**5** i **6**). Rezultati će biti prikazani i diskutovani detaljno.

Phenyl group influence on antitumour activity of conformationally contrainsted gonofufurone analogues

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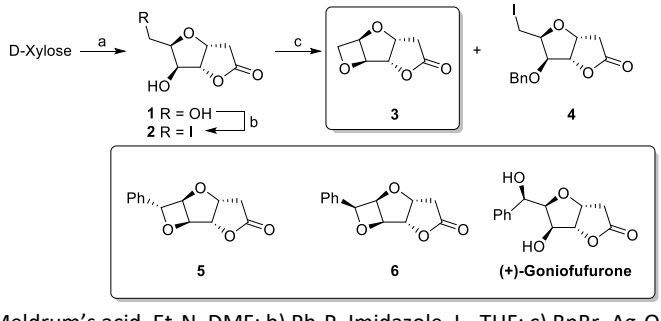
Dephenylated, conformationally constrained goniofufurone analogue (**3**) was synthesized in tree steps starting from commercially available D-xylose and its antitumour activity evaluated against several tumour cell lines and one normal cell line. In order to evaluate the influence of phenyl group on antitumour potential, cytotoxicity of dephenylated analogue was compared to cytotoxicities of previously synthesized analogues with phenyl group (**5** and **6**). The results will be presented and discussed in detail.



Scheme 1. a) Meldrum's acid, Et_3N, DMF; b) Ph_3P, Imidazole, I_2, THF; c) BnBr, Ag_2O, AgOTf, CH_2Cl_2.

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