MH P 1

Sinteza i citotoksična aktivnost novog defenilovanog analoga (–)-goniofufurona

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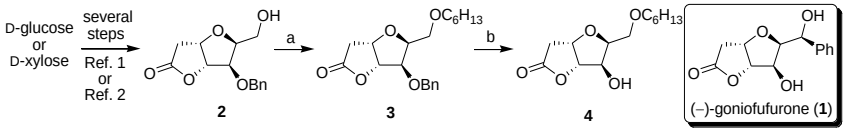
U cilju pronalaženja novih antineoplastičnih agenasa, dizajniran je novi defenilovani analog sintetičkog i vrlo potentnog molekula, (–)-goniofufurona (**1**, *Scheme 1*),[1,2] analog **4**. U ovom radu želimo da saopštimo sintezu analoga **4**, preliminarne rezultate ispitivanja njegove *in vitro* citotoksične aktivnosti prema ćelijama odabranih humanih tumora, kao i odnos strukture i aktivnosti (SAR) novosintetizovanog molekula **4** i ranije dobijenih analoga u našoj laboratoriji.



Scheme 1. Reagents and conditions: (a) $C_6H_{13}Br$, Ag_2O, AgOTf, Et_2O, reflux; (b) H_2, 10 % Pd/C, EtOH, rt.

Synthesis and cytotoxic activity of a new dephenylated (–)-goniofufurone analogue

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In the search for new antineoplastic agents, a new dephenylated analogue of a synthetic and very potent molecule, (–)-goniofufurone (**1**, *Scheme 1*),[1,2] analogue **4**, was designed. Herein we report the synthesis of analogue **4**, along with its effects on the proliferation of selected human tumour cell lines, as well as structure–activity relationship (SAR) of the new analogue **4** and analogues that were previously synthesized in our laboratory.

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