OH P 8

Sinteza novih A-kondenzovanih steroidnih pirazola

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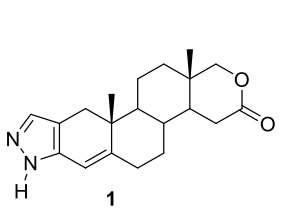
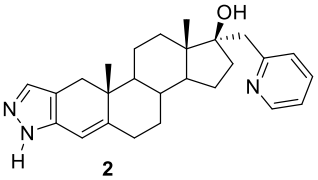
Pirazolski prsten kondenzovan sa steroidnim jezgrom doprinosi biološkoj aktivnosti osnovnog steroidnog molekula. Tako na primer neki od njih imaju značajnu antiproliferativnu aktivnost ili su potentni inhibitori enzima aromataze ili 17α-hidroksilaza/$C_{17,20}$-lijaze. Iz tog razloga mi smo sintetizovali nove A-kondenzovane steroidne pirazole sa D-homo laktonskom (**1**), 17α-(piridin-2-il)metil (**2**)- ili 17(*E*)-(piridin-2-il)metiliden (**3**) funkcijom, kako bi se ispitao njihov antitumorski potencijal. Polazno jedinjenje u ovim višefaznim sintezama je bio dehidroepiandrosteron.



1



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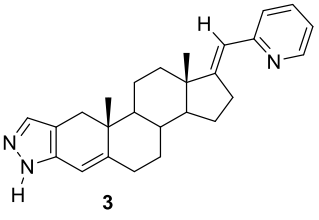

3

Synthesis of new A-condensed steroidal pyrazoles

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The pyrazole ring condensed with the steroidal core contributes to the biological activity of the primary steroidal molecule. For example, some of them exhibit significant antiproliferative activity or they are potent inhibitors of aromatase or 17α-hydroxylase/$C_{17,20}$-lyase. For this reason, we have synthesized new A-condensed steroidal pyrazoles with D-homo lactone (**1**) or 17α-(pyridine-2-yl)methyl (**2**) or 17(*E*)-(pyridine-2-yl)methylidene (**3**) function in order to examine their antitumor potential. The starting compound in these multistep syntheses was dehydroepiandrosterone.

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