

OH P 2

**Sinteza, karakterizacija i antiproliferativna aktivnost novog tetrazolskog derivata
henodeoksiholne kiseline**

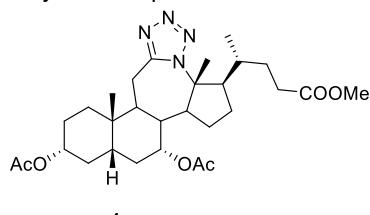
Dušan Đ. Škorić, Aleksandar M. Oklješa, Olivera R. Klisurić *, Dimitar S. Jakimov**,
Marija N. Sakač, Janoš J. Čanadi

*Departman za hemiju, biohemiju i zaštitu životne sredine, Prirodno-matematički fakultet,
Trg Dositeja Obradovića 3, Novi Sad*

**Departman za fiziku, Prirodno-matematički fakultet, Trg Dositeja Obradovića 3, Novi Sad*

***Institut za onkologiju Vojvodine, Put Dr Goldmana 4, Sremska Kamenica*

Steroidni molekuli koji sadrže heterociklični prsten u svojoj strukturi ispoljavaju značajno antiproliferativno dejstvo. 1,5-Disupstituisani tetrazoli predstavljaju strukturne analoge *cis*-amidne grupe koji ne podležu metaboličkoj degradaciji¹. U ovom radu predstavljena je hemijska sinteza tetrazolskog derivata **1** iz holne kiseline. Jedinjenje je pored spektroskopskih tehnika karakterisano i rentgenostrukturnom analizom. U cilju boljeg uvida u osobine jedinjenja **1**, izvršena je analiza pomoću DFT metode.



Synthesis, characterization and antiproliferative activity of chenodeoxycholic acid tetrazole derivative

Dušan Đ. Škorić, Aleksandar M. Oklješa, Olivera R. Klisurić *, Dimitar S. Jakimov**,
Marija N. Sakač, Janoš J. Čanadi

*Department of Chemistry, Biochemistry and Environmental protection, Faculty of Sciences
Trg Dositeja Obradovića 3, Novi Sad*

**Department of Physics, Faculty of Sciences, Trg Dositeja Obradovića 3, Novi Sad*

***Oncology Institute of Vojvodina, Put Dr Goldmana 4, Sremska Kamenica*

Steroidal compounds with a heterocyclic ring in their structure are exhibiting strong antiproliferative effects. 1,5-Disubstituted tetrazoles are metabolically stable structural analogs of *cis*-amide groups¹. In this work we present the chemical synthesis of tetrazole derivative **1** from cholic acid. Besides spectroscopy techniques, the structure of derivative **1** was determined by X-ray diffraction on monocrystal. In order to get a better insight into the characteristics of compound **1**, a computational study was performed using a DFT method.

- Ostrovskii V. A., et al.; *Russ. Chem Bull.* 61. (768-780) 2012.