OH P 3

Sinteza i biološka aktivnost Pd(II)-kompleksa salicilaldehidno-anilinskih Šifovih baza

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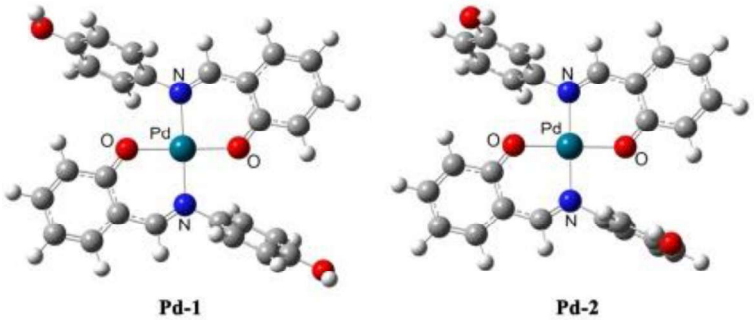
Sintetizovane su salicilaldehidne Šifove baze, 2-(((4-hidroksifenil)imino)metil)fenol (**1**) i 2-(((3-hidroksifenil)imino)metil)fenol (**2**) i njihovi odgovarajući Pd(II)-kompleksi (**Pd-1** i **Pd-2**), slika 1. Za razliku od liganada, oba kompleksa ispoljavaju veliku citotoksičnost prema ispitivanim ćelijskim linijama raka debelog creva (HCT-116) i raka dojke (MDA-MB-231).



Slika 1. *Strukture kompleksa*
Figure 1. *Structures of the complexes*

Tabela 1. *Citotoksični efekti ispitivanih uzoraka*
Table 1. *Cytotoxic effects of examined compound*

	HCT-116		MDA-MB-231	
IC_{50}, μM	24 h	72 h	24 h	72 h
1	142.3	368.0	440.2	133.6
Pd-1	11. 8	17.1	276.9	7.2
2	>500	277.6	>500	>500
Pd-2	5.8	0.6	55.6	40.7

Synthesis and biolgical activity of Pd(II)-complexes derived from salicylaldehyde-aniline Schiff bases

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Salicylaldehyde Schiff bases, 2-(((4-hydroxylphenyl)imino)methyl)phenol (**1**) and 2-(((3-hydroxylphenyl)imino)methyl)phenol (**2**) and their corresponding Pd(II)-complexes (**Pd-1** and **Pd-2**) were synthesized, Fig. 1. Both complexes exert outstanding cytotoxic character, while ligands are much less cytotoxic on the human colon cancer cell line, HCT-116 and breast cancer cell line, MDA-MB-231.