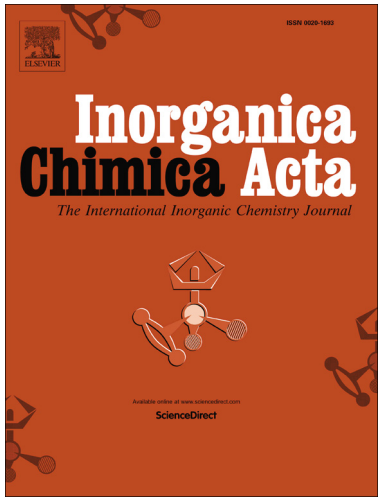

Research paper

Preparation and antimicrobial activity of a new palladium(II) complexes with a coumarin-derived ligands. Crystal structures of the 3-(1-(*o*-toluidino)ethylidene)-chroman-2,4-dione and 3-(1-(*m*-toluidino) ethylidene)-chroman-2,4-dione

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PII: S0020-1693(18)30807-7
DOI: https://doi.org/10.1016/j.ica.2018.09.014
Reference: ICA 18472

To appear in: *Inorganica Chimica Acta*

Received Date: 24 May 2018
Revised Date: 6 September 2018
Accepted Date: 6 September 2018

Please cite this article as: E.H. Avdović, D.L. Stojković, V.V. Jevtić, D. Milenković, Z.S. Marković, N. Vuković, I. Potoč ň ák, I.D. Radojević, L.R. Čomić, S.R. Trifunović, Preparation and antimicrobial activity of a new palladium(II) complexes with a coumarin-derived ligands. Crystal structures of the 3-(1-(*o*-toluidino)ethylidene)-chroman-2,4-dione and 3-(1-(*m*-toluidino) ethylidene)-chroman-2,4-dione, *Inorganica Chimica Acta* (2018), doi: https://doi.org/10.1016/j.ica.2018.09.014

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Abstract

The five coumarin derivatives 3-(1-(2-hydroxypropylamino)ethylidene)-chroman-2,4-dione (**L1**), 3-(1-(phenylamino)ethylidene)-chroman-2,4-dione (**L2**), 3-(1-(*o*-toluidino)ethylidene)--chroman-2,4-dione (**L3**), 3-(1-(*m*-toluidino)ethylidene)-chroman-2,4-dione (**L4**), 3-(1-(2--mercaptoethylamino)ethylidene)-chroman-2,4-dione (**L5**) and its corresponding complexes 3-(1-(2-hydroxypropylamino)-ethylidene)-chroman-2,4-dione-palladium(II) (**C1**), 3-(1-