University of Ljubljana

Faculty of Chemistry and Chemical Technology

Večna pot 113 SI-1000 Ljubljana Slovenia Phone: +386 1 479 8558 janez,kosmrlj@fkkt.uni-lj.si



Dr Janez Košmrlj Professor of Organic Chemistry

September 18, 2017

Dear Professor Pavko
Dear Editor of *Acta Chimica Slovenica* 

Please find enclosed a manuscript entitled "Synthesis and X-ray Structural Characterization of the Ruthenium(III) Complex Na[trans-RuCl<sub>4</sub>(DMSO)(PyrDiaz)], the Diazene Derivative of Antitumor NAMI-Pyr" by Jure Vajs, Andrej Pevec, Martin Gazvoda, Damijana Urankar, Evgeny Goreshnik, Slovenko Polanc, and myself that we are submitting for publication as a Scientific paper in the field of Organic Chemistry in Acta Chimica Slovenica.

## The manuscript is submitted for the special issue of *Acta Chimica Slovenica*, dedicated in honour of Professor Miha Tišler.

In this study, we provide the synthesis of novel tetrachloridoruthenium(III) complex  $Na[trans-RuCl_4(DMSO)(PyrDiaz)]$  with pyridine-tethered diazenedicarboxamide PyrDiaz ligand (PyrDiaz =  $N^1$ -(4-isopropylphenyl)- $N^2$ -(pyridin-2-ylmethyl)diazene-1,2-dicarboxamide). The complex has been fully characterized by  $^1H$  NMR, microanalysis, ESI-HRMS, and X-ray. The work was inspired by ruthenium(III) complexes NAMI-A and our recent endeavour in the field of anticancer diazenecarboxamides. Despite the fact, however, that the prepared complex  $Na[trans-RuCl_4(DMSO)(PyrDiaz)]$  lacks sufficient stability in aqueous media to be biologically evaluated, we believe the work presented herein will be of interest to many chemists involved in coordination chemistry and drug design.

The manuscript is not under consideration for publication and has not been published elsewhere in any medium including electronic journals and computer databases of a public nature.

Hoping that this manuscript can be considered for publication in *Acta Chimica Slovenica*, I remain,

Yours sincerely,

Janez Košmrli