LUND UNIVERSITY

Synthesis and characterisation of novel platinum-based drug candidates

Bjelosevic, Haris; Elmroth, Sofi; Persson, Tina

2006

Link to publication

Citation for published version (APA):
Bjelosevic, H., Elmroth, S., & Persson, T. (2006). *Synthesis and characterisation of novel platinum-based drug candidates*. Abstract from Organikerdagarna (The Swedish Chemical Society), Kalmar, Sweden.

Total number of authors:
3

General rights
Unless other specific re-use rights are stated the following general rights apply:
Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.
• Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
• You may not further distribute the material or use it for any profit-making activity or commercial gain
• You may freely distribute the URL identifying the publication in the public portal

Read more about Creative commons licenses: https://creativecommons.org/licenses/

Take down policy
If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

LUND UNIVERSITY

PO Box 117
221 00 Lund
+46 46-222 00 00

Synthesis and characterisation of novel platinum-based drug candidates

Haris Bjelosevic[a], Sofi K. C. Elmroth[b] and Tina Persson[a]

[a]*Organic chemistry, Kemicentrum, Lund University, P. O. Box 124, SE-221 00 Lund, Sweden*

[b]*Biochemistry, Kemicentrum, Lund University, P. O. Box 124, SE-221 00 Lund, Sweden*

Abstract

One of the most widely used anticancer drugs is cisplatin, (cis-diaminodichloroplatinum(II)). Despite its clinical success, cisplatin still suffers from a number of problems, like generating resistance and high toxicity due to poor selectivity. By molecular design, we are searching for new platinum complexes with different properties and trying to understand their cellular behaviour. We have synthesised derivatives of 1,1'-bis(diphenylphosphino)-ferrocene (dppf) and their corresponding cis-platinum complexes.

These compounds have been tested for their interaction capacity with respect to L-cys, L-met and different oligonucleotides. Comparative kinetic studies reveal that substituents have a significant effect upon the reaction kinetics. The substituted complexes were found to have an increased reactivity. Even compared to cisplatin, the reactivity of dppf containing complexes was found to be significantly enhanced.