#### Accepted Manuscript

Chemical basis for the detoxification of cisplatin-derived hydrolysis products by sodium thiosulfate

Melani Sooriyaarachchi, Jürgen Gailer, Natalia V. Dolgova, Ingrid J. Pickering, Graham N. George

 PII:
 S0162-0134(16)30165-9

 DOI:
 doi: 10.1016/j.jinorgbio.2016.06.012

 Reference:
 JIB 10014

To appear in: Journal of Inorganic Biochemistry

Received date:10 March 2016Revised date:6 May 2016Accepted date:3 June 2016



Please cite this article as: Melani Sooriyaarachchi, Jürgen Gailer, Natalia V. Dolgova, Ingrid J. Pickering, Graham N. George, Chemical basis for the detoxification of cisplatin-derived hydrolysis products by sodium thiosulfate, *Journal of Inorganic Biochemistry* (2016), doi: 10.1016/j.jinorgbio.2016.06.012

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

### ACCEPTED MANUSCRIPT

# Chemical basis for the detoxification of cisplatin-

# derived hydrolysis products by sodium thiosulfate

Melani Sooriyaarachchi<sup>a</sup>, Jürgen Gailer<sup>a,\*</sup>, Natalia V. Dolgova<sup>b</sup>, Ingrid J. Pickering<sup>b,c,d</sup>, Graham N. George<sup>b,c,d,\*</sup>

<sup>a</sup> Department of Chemistry, University of Calgary, Calgary, AB, T2N 1N4, Canada

<sup>b</sup> Molecular and Environmental Science Research Group, Department of Geological Sciences,

University of Saskatchewan, Saskatoon, SK, S7N 5E2, Canada

<sup>c</sup> Toxicology Center, University of Saskatchewan, Saskatoon, SK, S7N 5B3, Canada

<sup>d</sup> Department of Chemistry, University of Saskatchewan, Saskatoon, SK, S7N 5C9, Canada

\*Corresponding authors.

*E-mail addresses:* j.gailer@ucalgary.ca (J. Gailer), g.george@usask.ca (G. N. George)

Keywords: cisplatin; thiosulfate; ameliorating agent; XAS; EXAFS; DFT

Download English Version:

# https://daneshyari.com/en/article/7754553

Download Persian Version:

https://daneshyari.com/article/7754553

Daneshyari.com