

Author's Accepted Manuscript

The thiol of human serum albumin: acidity, microenvironment and mechanistic insights on its oxidation to sulfenic acid

Jenner Bonanata, Lucía Turell, Laura Antmann, Gerardo Ferrer-Sueta, Santiago Botasini, Eduardo Méndez, Beatriz Alvarez, E. Laura Coitiño



www.elsevier.com

PII: S0891-5849(17)30224-1
DOI: <http://dx.doi.org/10.1016/j.freeradbiomed.2017.04.021>
Reference: FRB13302

To appear in: *Free Radical Biology and Medicine*

Received date: 16 December 2016
Revised date: 14 April 2017
Accepted date: 17 April 2017

Cite this article as: Jenner Bonanata, Lucía Turell, Laura Antmann, Gerardo Ferrer-Sueta, Santiago Botasini, Eduardo Méndez, Beatriz Alvarez and E. Laura Coitiño, The thiol of human serum albumin: acidity, microenvironment and mechanistic insights on its oxidation to sulfenic acid, *Free Radical Biology and Medicine*, <http://dx.doi.org/10.1016/j.freeradbiomed.2017.04.021>

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 galley proof before it is published in its final citable 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

The thiol of human serum albumin: acidity, microenvironment and mechanistic insights on its oxidation to sulfenic acid

Jenner Bonanata,^{a,b} Lucía Turell,^b Laura Antmann,^b Gerardo Ferrer-Sueta,^c Santiago Botasini,^d Eduardo Méndez,^d Beatriz Alvarez,^{b,*} and E. Laura Coitiño ^{a,*}

Laboratorios de ^aQuímica Teórica y Computacional, ^bEnzimología, ^cFisicoquímica Biológica, and ^dBiomateriales, Instituto de Química Biológica, Facultad de Ciencias, Universidad de la República, Iguá 4225, Montevideo 11400, Uruguay.

*** Corresponding authors:**

E. Laura Coitiño, Ph.D., M.Sc. *Professor & Head of Theoretical & Computational Chemistry, LQTC, Institute of Biological Chemistry, School of Sciences, Udelar, Montevideo 11400, Uruguay.* Phone: (+598) 2525 2186. Fax: (+598) 2525 0749. E-mail: laurac@fcien.edu.uy

Beatriz Álvarez, Ph.D., M.Sc. *Professor & Head of Enzimology, Institute of Biological Chemistry, School of Sciences, Udelar, Montevideo 11400, Uruguay.* Phone: (+598) 2525 8618, ext. 214. Fax: (+598) 2525 0749. E-mail: beatriz.alvarez@fcien.edu.uy

Download English Version:

<https://daneshyari.com/en/article/5502093>

Download Persian Version:

<https://daneshyari.com/article/5502093>

[Daneshyari.com](https://daneshyari.com)