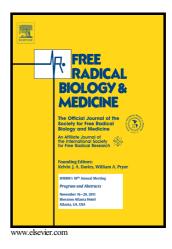
Author's Accepted Manuscript

Early events in copper-ion catalyzed oxidation of α -synuclein

Manish K. Tiwari, Fabian Leinisch, Cagla Sahin, Ian Max Møller, Daniel E. Otzen, Michael J. Davies, Morten J. Bjerrum



 PII:
 S0891-5849(18)30736-6

 DOI:
 https://doi.org/10.1016/j.freeradbiomed.2018.04.559

 Reference:
 FRB13727

To appear in: Free Radical Biology and Medicine

Received date: 8 January 2018 Revised date: 28 March 2018 Accepted date: 17 April 2018

Cite this article as: Manish K. Tiwari, Fabian Leinisch, Cagla Sahin, Ian Max Møller, Daniel E. Otzen, Michael J. Davies and Morten J. Bjerrum, Early events in copper-ion catalyzed oxidation of α -synuclein, *Free Radical Biology and Medicine*, https://doi.org/10.1016/j.freeradbiomed.2018.04.559

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. Running title: Copper-ion catalyzed oxidation of α -synuclein

Early events in copper-ion catalyzed oxidation of

α-synuclein

Manish K. Tiwari^a; Fabian Leinisch^b, Cagla Sahin^c, Ian Max Møller^d, Daniel E. Otzen^c; Michael

J. Davies^b and Morten J. Bjerrum^a *

^a Department of Chemistry, University of Copenhagen, Copenhagen, Denmark

^b Department of Biomedical Sciences, University of Copenhagen, Copenhagen, Denmark

^c Department of Molecular Biology and Genetics, Aarhus University, Aarhus C, Denmark

^d Department of Molecular Biology and Genetics, Aarhus University, Slagelse, Denmark

Running title: Copper-ion catalyzed oxidation of α -synuclein

Abbreviations used: α–SN, α–synuclein; PD, Parkinson's disease; Met, methionine; Tyr, tyrosine; His, histidine, AscH⁻, ascorbate; 2Na–EDTA, Ethylenediaminetetraacetic acid disodium salt; MOPS, 3–(N–morpholino) propane–sulfonic acid.

*Corresponding author at: Department of Chemistry, University of Copenhagen,

Universitetsparken 5, DK-2100 Copenhagen, Denmark

Email address: mobj@chem.ku.dk (M. J. Bjerrum)

Download English Version:

https://daneshyari.com/en/article/8265314

Download Persian Version:

https://daneshyari.com/article/8265314

Daneshyari.com