Accepted Manuscript

Selective delivery of doxorubicin by novel stimuli-sensitive nano-ferritins overcomes tumor refractivity

Giulio Fracasso, Elisabetta Falvo, Gianni Colotti, Francesco Fazi, Tiziano Ingegnere, Adriana Amalfitano, Giovanni Battista Doglietto, Sergio Alfieri, Alberto Boffi, Veronica Morea, Giamaica Conti, Elisa Tremante, Patrizio Giacomini, Alessandro Arcovito, Pierpaolo Ceci



| PII: | S0168-3659(16)30512-0 |
|------------|------------------------------------|
| DOI: | doi: 10.1016/j.jconrel.2016.08.010 |
| Reference: | COREL 8422 |
| | |

To appear in: Journal of Controlled Release

Received date:10 June 2016Revised date:4 August 2016Accepted date:9 August 2016

Please cite this article as: Giulio Fracasso, Elisabetta Falvo, Gianni Colotti, Francesco Fazi, Tiziano Ingegnere, Adriana Amalfitano, Giovanni Battista Doglietto, Sergio Alfieri, Alberto Boffi, Veronica Morea, Giamaica Conti, Elisa Tremante, Patrizio Giacomini, Alessandro Arcovito, Pierpaolo Ceci, Selective delivery of doxorubicin by novel stimuli-sensitive nano-ferritins overcomes tumor refractivity, *Journal of Controlled Release* (2016), doi: 10.1016/j.jconrel.2016.08.010

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.

Selective delivery of doxorubicin by novel stimuli-sensitive nano-ferritins overcomes tumor refractivity

Giulio Fracasso ^{a,1}, Elisabetta Falvo ^{b,1}, Gianni Colotti ^b, Francesco Fazi ^c, Tiziano Ingegnere ^d, Adriana Amalfitano ^e, Giovanni Battista Doglietto ^f, Sergio Alfieri ^f, Alberto Boffi ^{b,g,h}, Veronica Morea ^b, Giamaica Conti ⁱ, Elisa Tremante ^d, Patrizio Giacomini ^d, Alessandro Arcovito ^{e,*}, and Pierpaolo Ceci ^{b,*}

a Department of Medicine, University of Verona, 37134 Verona, Italy

b Institute of Molecular Biology and Pathology, CNR – National Research Council of Italy, 00185 Rome, Italy

c Department of Anatomical, Histological, Forensic & Orthopedic Sciences, Section of Histology & Medical Embryology, "Sapienza" University, 00161 Rome, Italy

d Oncogenomics and Epigenetics, Regina Elena National Cancer Institute, 00144 Rome, Italy

e Institute of Biochemistry and Clinical Biochemistry, Catholic University, 00168 Rome, Italy

f Digestive Surgery Division, Department of Surgical Sciences, Catholic University, 00168 Rome, Italy

g Department of Biochemical Sciences "A. Rossi-Fanelli", "Sapienza" University, 00185 Rome, Italy

h Center for Life Nano Science at "Sapienza" University, Italian Institute of Technology (IIT), 00161 Rome, Italy

i Department of Neurological and Movement Sciences, University of Verona, 37134 Verona, Italy

* Corresponding authors:

e-mail address: pierpaolo.ceci@cnr.it (P. Ceci); alessandro.arcovito@unicatt.it (A. Arcovito)

¹ The authors contributed equally to this work

Keywords: protein-cage nanocarrier; ferritin; PASylation; nuclear localization; drug-delivery; pancreatic cancer

Chemical compounds studied in this article

Download English Version:

https://daneshyari.com/en/article/7861074

Download Persian Version:

https://daneshyari.com/article/7861074

Daneshyari.com