Accepted Manuscript



Title: Improved pharmacokinetics and enhanced tumor growth inhibition using a nanostructured lipid carrier loaded with doxorubicin and modified with a layer-by-layer polyelectrolyte coating

Author: Samuel V. Mussi Gaurav Parekh Pravin Pattekari Tatyana Levchenko Yuri Lvov Lucas A.M. Ferreira Vladimir P. Torchilin

PII:	S0378-5173(15)30176-9
DOI:	http://dx.doi.org/doi:10.1016/j.ijpharm.2015.08.079
Reference:	IJP 15162
To appear in:	International Journal of Pharmaceutics
Received date:	24-4-2015
Revised date:	16-8-2015
Accepted date:	25-8-2015

Please cite this article as: Mussi, Samuel V., Parekh, Gaurav, Pattekari, Pravin, Levchenko, Tatyana, Lvov, Yuri, Ferreira, Lucas A.M., Torchilin, Vladimir P., Improved pharmacokinetics and enhanced tumor growth inhibition using a nanostructured lipid carrier loaded with doxorubicin and modified with a layer-by-layer polyelectrolyte coating.International Journal of Pharmaceutics http://dx.doi.org/10.1016/j.ijpharm.2015.08.079

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

1	Improved pharmacokinetics and enhanced tumor growth inhibition using a
2	nanostructured lipid carrier loaded with doxorubicin and modified with a
3	layer-by-layer polyelectrolyte coating
4	
5	Samuel V. Mussi ¹ , Gaurav Parekh ² , Pravin Pattekari ² , Tatyana Levchenko ¹ , Yuri Lvov ² , Lucas
6	A.M. Ferreira ³ , Vladimir P. Torchilin ^{1*}
7	
8	¹ Center for Pharmaceutical Biotechnology and Nanomedicine, 360 Huntington Avenue, 140 The
9	Fenway, Northeastern University, Boston, MA 02115, USA.
10	² Institute for Micromanufacturing, Louisiana Tech University, Ruston, LA, USA.
11	³ Department of Pharmaceutics, Faculty of Pharmacy, Federal University of Minas Gerais
12	(UFMG), Av Antônio Carlos, 6627, Campus Pampulha, Belo Horizonte, Minas Gerais, 31270-
13	901, Brazil.
14	
15	* Corresponding author. Tel.: +1 617 373 3206; Fax: +1 617 373 7509. E-mail address:
16	v.torchilin@neu.edu (V. P. Torchilin).
17	Graphical abstract
18	
19	
20	Abstract
21	A nanostructured lipid carrier (NLC) loaded with doxorubicin (DOX) has been shown to
22	be cytotoxic against the human cancer cell lines A549 and MCF-7/Adr. In attempts to improve

Download English Version:

https://daneshyari.com/en/article/5818449

Download Persian Version:

https://daneshyari.com/article/5818449

Daneshyari.com