Accepted Manuscript

Multimodal doxorubicin loaded magnetic nanoparticles for VEGF targeted theranostics of breast cancer



Alevtina S. Semkina, Maxim A. Abakumov, Alexander S. Skorikov, Tatiana O. Abakumova, Pavel A. Melnikov, Nadejda F. Grinenko, Sergey A. Cherepanov, Daniil A. Vishnevskiy, Victor A. Naumenko, Klavdiya P. Ionova, Alexander G. Majouga, Vladimir P. Chekhonin

PII:	S1549-9634(18)30091-1
DOI:	doi:10.1016/j.nano.2018.04.019
Reference:	NANO 1800
To appear in:	

Received date:	8 November 2017
Revised date:	9 April 2018
Accepted date:	23 April 2018

Please cite this article as: Alevtina S. Semkina, Maxim A. Abakumov, Alexander S. Skorikov, Tatiana O. Abakumova, Pavel A. Melnikov, Nadejda F. Grinenko, Sergey A. Cherepanov, Daniil A. Vishnevskiy, Victor A. Naumenko, Klavdiya P. Ionova, Alexander G. Majouga, Vladimir P. Chekhonin , Multimodal doxorubicin loaded magnetic nanoparticles for VEGF targeted theranostics of breast cancer. The address for the corresponding author was captured as affiliation for all authors. Please check if appropriate. Nano(2018), doi:10.1016/j.nano.2018.04.019

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

Multimodal doxorubicin loaded magnetic nanoparticles for VEGF targeted theranostics of breast cancer

Alevtina S. Semkina Ph.D.*^{1,2}, Maxim A. Abakumov Ph.D.*^{1,2}, Alexander S. Skorikov M.Sc.³, Tatiana O. Abakumova Ph.D.⁴, Pavel A. Melnikov M.Sc.⁵, Nadejda F. Grinenko Ph.D.⁵, Sergey A. Cherepanov M.Sc.^{1,5}, Daniil A. Vishnevskiy¹, Victor A. Naumenko Ph.D.², Klavdiya P. Ionova M.Sc.⁵, Alexander G. Majouga Ph.D., Dr.Sci.^{2,3,6}, Vladimir P. Chekhonin Ph.D., Dr.Sci.^{1,5}.

¹Pirogov Russian National Research Medical University, Ostrovitianov 1, 117997 Moscow, Russian Federation

²The National University of Science and Technology MISiS, Leninskiy prospect 4, 119049 Moscow, Russian Federation

³Lomonosov Moscow State University, Lenin Hills 1, 119991 Moscow, Russian Federation

⁴Skolkovo Institute of Science and Technology, Nobel street 3, 121205 Moscow, Russian Federation

⁵Serbsky National Medical Research Center for Psychiatry and Narcology, Kropotkinskiy 23, 119991 Moscow, Russian Federation

⁶Dmitry Mendeleev University of Chemical Technology of Russia, Miusskaya sq. 9, 125047 Moscow, Russian Federation

* Both authors contributed equally

Corresponding author:

M. A. Abakumov tel.: +79035864777

e-mail: abakumov1988@gmail.com

Pirogov Russian National Research Medical University, Ostrovitianov 1, 117997 Moscow, Russian Federation

Word count for abstract:103Complete manuscript word count:4862

Number of tables:1Number of figures:7Number of references:42

This work was supported by Grant of President of Russian Federation (grant number MK-6371.2016.7) and grant of Ministry of Education and Science of the Russian Federation in the framework of Increase Competitiveness Program of NUST «MISiS» №K2-2015-071 (assessment of nanoparticles toxicity) and №K4-2017-046 (assessment of MRI study).

Conflicts of interest: there are no conflicts to declare

Download English Version:

https://daneshyari.com/en/article/7237967

Download Persian Version:

https://daneshyari.com/article/7237967

Daneshyari.com