

Accepted Manuscript

Title: Dual responsive gelatin-based nanoparticles for enhanced 5-fluorouracil efficiency

Authors: M. Carmen Morán, Javier Carazo, M. Antònia Busquets



PII: S0927-7765(18)30638-6
DOI: <https://doi.org/10.1016/j.colsurfb.2018.09.027>
Reference: COLSUB 9629

To appear in: *Colloids and Surfaces B: Biointerfaces*

Received date: 6-6-2018
Revised date: 5-9-2018
Accepted date: 12-9-2018

Please cite this article as: Morán MC, Carazo J, Busquets MA, Dual responsive gelatin-based nanoparticles for enhanced 5-fluorouracil efficiency, *Colloids and Surfaces B: Biointerfaces* (2018), <https://doi.org/10.1016/j.colsurfb.2018.09.027>

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.

Dual responsive gelatin-based nanoparticles for enhanced 5-fluorouracil efficiency

M. Carmen Morán,^{a,b,*} Javier Carazo,^a M. Antònia Busquets^{b,c}

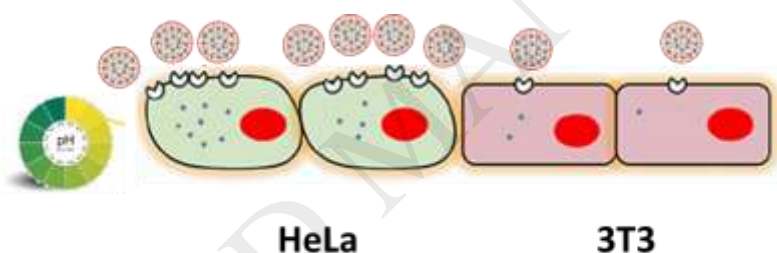
^aDepartament de Bioquímica i Fisiologia-Secció de Fisiologia; Facultat de Farmàcia i Ciències de l'Alimentació- Universitat de Barcelona, Avda. Joan XXIII 27-31, 08028-Barcelona-Spain

^bInstitut de Nanociència i Nanotecnologia-IN²UB, Universitat de Barcelona, Avda. Joan XXIII 27-31, 08028-Barcelona-Spain

^cDepartament de Farmàcia, Tecnologia Farmacèutica i Fisicoquímica-Secció de Fisicoquímica; Facultat de Farmàcia i Ciències de l'Alimentació- Universitat de Barcelona, Avda. Joan XXIII 27-31, 08028-Barcelona-Spain

*Corresponding author: mcmoranb@ub.edu

Graphical Abstract



Highlights

- pH-triggered release systems have been achieved through the formation of gelatin B (5-FU)-PS NPs
- Naturally occurring RGD-motif on gelatin can be used to targeting 5-FU to the tumour cells
- The proposed dual approach provides NPs with highly potent and selective antitumoral delivery properties

Abstract

The very slow progress in the therapeutic efficacy of the treatment of severe diseases has suggested the use of a growing need for a multidisciplinary approach to the delivery of therapeutics to targets tissues. There has been increasing effort in the design of stimuli-

Download English Version:

<https://daneshyari.com/en/article/11003133>

Download Persian Version:

<https://daneshyari.com/article/11003133>

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