Accepted Manuscript

Title: Redox-sensitive nanoparticles based on 4-aminothiophenol-carboxymethyl inulin conjugate for budesonide delivery in inflammatory bowel diseases

Authors: Qijuan Sun, Lin Luan, Muhammad Arif, Jiaxin Li, Quan-Jiang Dong, Yuanyuan Gao, Zhe Chi, Chen-Guang Liu

PII: S0144-8617(17)31427-3

DOI: https://doi.org/10.1016/j.carbpol.2017.12.021

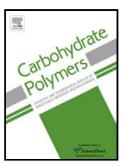
Reference: CARP 13083

To appear in:

Received date: 25-8-2017 Revised date: 11-12-2017 Accepted date: 11-12-2017

Please cite this article as: Sun Q, Luan L, Arif M, Li J, Dong Q-J, Gao Y, Chi Z, Liu C-G, Redox-sensitive nanoparticles based on 4-aminothiophenol-carboxymethyl inulin conjugate for budesonide delivery in inflammatory bowel diseases, *Carbohydrate Polymers* (2010), https://doi.org/10.1016/j.carbpol.2017.12.021

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

Article

Redox-sensitive nanoparticles based on 4-aminothiophenol-carboxymethyl inulin conjugate for budesonide delivery in inflammatory bowel diseases

Qijuan Sun^a, Lin Luan^a, Muhammad Arif^a, Jiaxin Li^a, Quan-Jiang Dong^b, Yuanyuan Gao^c, Zhe Chi^a, Chen-Guang Liu*

^aCollege of Marine Life Science, Ocean University Of China, No.5 Yushan Road, Qingdao 266003,

Shandong, China

^bCentral Laboratories and Department Of Gastroenterology Qingdao Municipal Hospital, Qingdao

266000, Shandong, China

^cCollege of Pharmacy, Weifang Medical University, Baotong Road, Weifang 261053, Shandong,

China

*Corresponding Author: Chen-Guang Liu

Address: College of Marine life Science, Ocean University Of China No.5 Yushan

Road, Qingdao 266003 Shan dong Province, P.R.China.

Tel: 0086-532-82032102; fax: 0086-532-82032586

E-mail address: <u>liucg@ouc.edu.cn</u> (C.G.LIU)

Highlights

- We synthesized functional nanoparticles based on the amphiphilic inulin.
- The nanoparticles have a negative charge and pH/redox sensitivity.
- The nanoparticles were used as drug delivery loading BDS.

Download English Version:

https://daneshyari.com/en/article/7783320

Download Persian Version:

https://daneshyari.com/article/7783320

Daneshyari.com