

Accepted Manuscript

Design, synthesis and antibacterial activity of cinnamaldehyde derivatives as inhibitors of the bacterial cell division protein FtsZ

Xin Li, Juzheng Sheng, Guihua Huang, Ruixin Ma, Fengxin Yin, Di Song, Can Zhao, Shutao Ma



PII: S0223-5234(15)30010-6

DOI: [10.1016/j.ejmech.2015.04.048](https://doi.org/10.1016/j.ejmech.2015.04.048)

Reference: EJMECH 7863

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 10 August 2014

Revised Date: 22 April 2015

Accepted Date: 23 April 2015

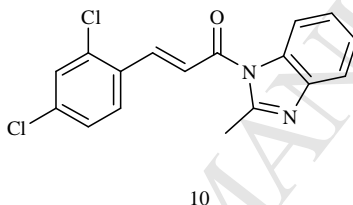
Please cite this article as: X. Li, J. Sheng, G. Huang, R. Ma, F. Yin, D. Song, C. Zhao, S. Ma, Design, synthesis and antibacterial activity of cinnamaldehyde derivatives as inhibitors of the bacterial cell division protein FtsZ, *European Journal of Medicinal Chemistry* (2015), doi: 10.1016/j.ejmech.2015.04.048.

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.

Graphical Abstract:**Design, synthesis and antibacterial activity of cinnamaldehyde derivatives as inhibitors of the bacterial cell division protein FtsZ**

Xin Li ^a, Juzheng Sheng ^b, Guihua Huang ^c, Ruixin Ma ^d, Fengxin Yin ^b, Di Song ^a, Can Zhao ^a, Shutao Ma ^{a,*}

The cinnamaldehyde derivatives, especially compound **10**, exhibited potent FtsZ-targeted antibacterial activity with an MIC value of 4 µg/mL against *S. aureus* and *S. epidermidis*.



Download English Version:

<https://daneshyari.com/en/article/7799984>

Download Persian Version:

<https://daneshyari.com/article/7799984>

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