

Accepted Manuscript

Synthesis and biological evaluation of 2,5-disubstituted furan derivatives as P-glycoprotein inhibitors for Doxorubicin resistance in MCF-7/ADR cell

Ya-Sheng Li, Dong-Sheng Zhao, Xing-Yu Liu, Yi-Xian Liao, Hong-Wei Jin, Gao-Peng Song, Zi-Ning Cui



PII: S0223-5234(18)30346-5

DOI: [10.1016/j.ejmech.2018.04.012](https://doi.org/10.1016/j.ejmech.2018.04.012)

Reference: EJMECH 10361

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 26 January 2018

Revised Date: 4 April 2018

Accepted Date: 4 April 2018

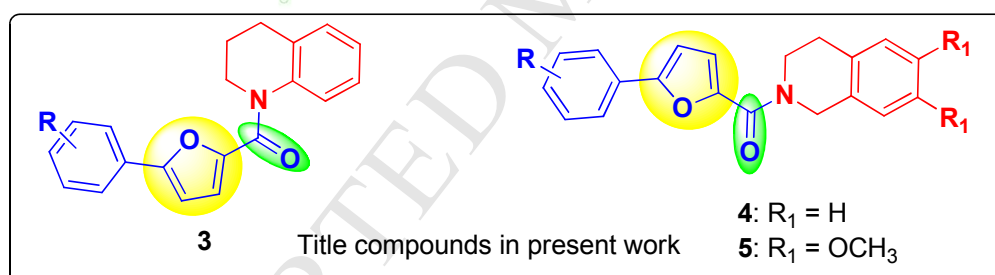
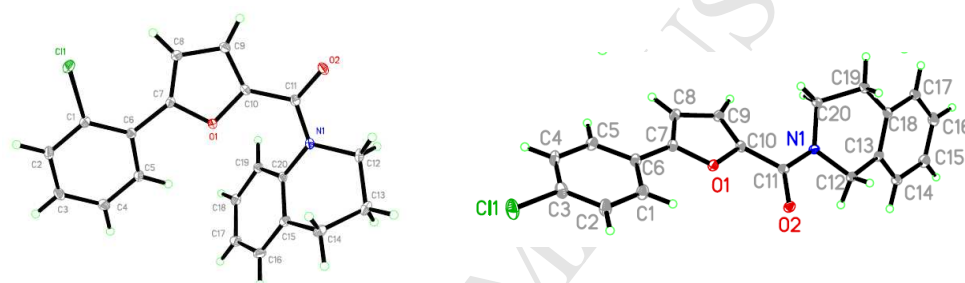
Please cite this article as: Y.-S. Li, D.-S. Zhao, X.-Y. Liu, Y.-X. Liao, H.-W. Jin, G.-P. Song, Z.-N. Cui, Synthesis and biological evaluation of 2,5-disubstituted furan derivatives as P-glycoprotein inhibitors for Doxorubicin resistance in MCF-7/ADR cell, *European Journal of Medicinal Chemistry* (2018), doi: 10.1016/j.ejmech.2018.04.012.

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

Synthesis and biological evaluation of 2,5-disubstituted furan derivatives as P-glycoprotein inhibitors for Doxorubicin resistance in MCF-7/ADR cell

Ya-Sheng Li ^{a,#}, Dong-Sheng Zhao ^{b,#}, Xing-Yu Liu ^a, Yi-Xian Liao ^a, Hong-Wei Jin ^c,
Gao-Peng Song ^{d,*}, Zi-Ning Cui ^{a,*}



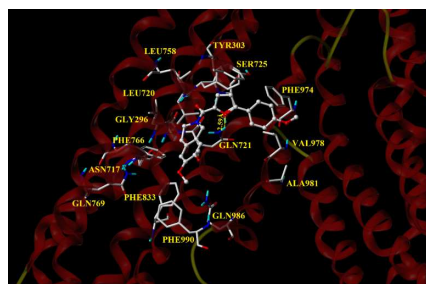
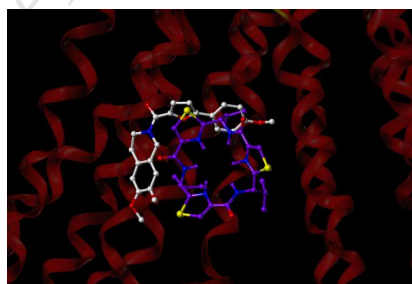
5m: $R = 4-OCH_3$

P-gp inhibitory activity: $EC_{50} = 0.89 \pm 0.11 \mu M$

$P_{app} = 5.3$

Antiproliferative effect: $97.8 \pm 1.9\%$

Folds of Doxorubicin: 9.2 ± 0.9



Download English Version:

<https://daneshyari.com/en/article/7796546>

Download Persian Version:

<https://daneshyari.com/article/7796546>

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