

Accepted Manuscript

Part I: Design, synthesis and biological evaluation of novel pyrazole-benzimidazole conjugates as checkpoint kinase 2 (Chk2) inhibitors with studying their activities alone and in combination with genotoxic drugs

Shadia A. Galal, Ass. Prof. of Organic Chemistry, Ahmed S. Abdelsamie, Samia A. Shouman, Yasmin M. Attia, Hamed I. Ali, Ashraf Tabll, Reem El-Shenawy, Yasmine S. El Abd, Mamdouh M. Ali, Abeer E. Mahmoud, Abeer H. Abdel-Halim, Amal A. Fyiad, Adel S. Girgis, Hoda I. El-Diwani

PII: S0223-5234(17)30234-9

DOI: [10.1016/j.ejmech.2017.03.090](https://doi.org/10.1016/j.ejmech.2017.03.090)

Reference: EJMECH 9387

To appear in: *European Journal of Medicinal Chemistry*

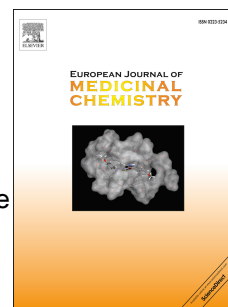
Received Date: 9 December 2016

Revised Date: 12 March 2017

Accepted Date: 26 March 2017

Please cite this article as: S.A. Galal, A.S. Abdelsamie, S.A. Shouman, Y.M. Attia, H.I. Ali, A. Tabll, R. El-Shenawy, Y.S. El Abd, M.M. Ali, A.E. Mahmoud, A.H. Abdel-Halim, A.A. Fyiad, A.S. Girgis, H.I. El-Diwani, Part I: Design, synthesis and biological evaluation of novel pyrazole-benzimidazole conjugates as checkpoint kinase 2 (Chk2) inhibitors with studying their activities alone and in combination with genotoxic drugs, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.03.090.

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.



Part I: Design, synthesis and biological evaluation of novel pyrazole-benzimidazole conjugates as Checkpoint kinase 2 (Chk2) inhibitors with studying their activities alone and in combination with genotoxic drugs

Shadia A. Galal^{1,*}, Ahmed S. Abdelsamie¹, Samia A. Shouman², Yasmin M. Attia², Hamed I. Ali^{3,4}, Ashraf Tabll⁵, Reem El-Shenawy⁵, Yasmine S. El Abd⁵, Mamdouh M. Ali⁶, Abeer E. Mahmoud⁶, Abeer H. Abdel-Halim⁶, Amal A. Fyiad⁶, Adel S. Girgis⁷, Hoda I. El-Diwani¹

¹Department of Chemistry of Natural and Microbial Products, Division of Pharmaceutical and Drug Industries, National Research Centre, Cairo, 12622, Egypt.

²Department of Cancer Biology, National Cancer Institute, Cairo University

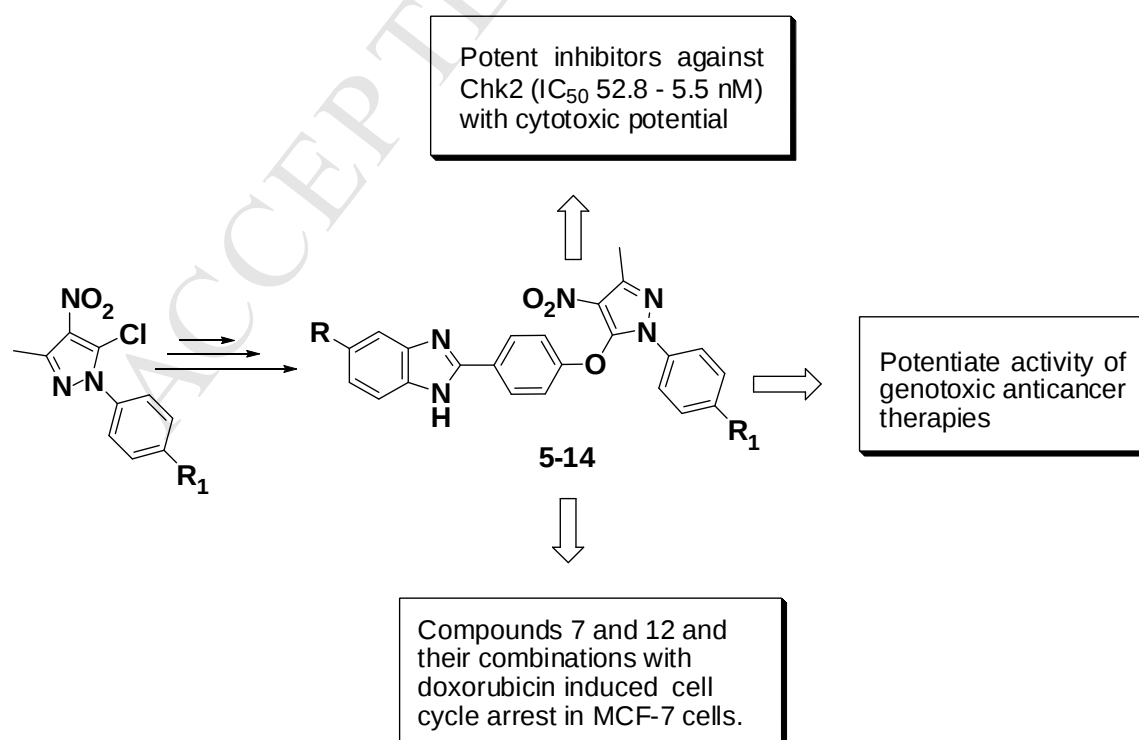
³Department of Pharmaceutical Sciences, Texas A&M University Irma Lerma Rangel College of Pharmacy Kingsville, Texas 78363

⁴Department of Pharmaceutical Chemistry, College of Pharmacy, Helwan University, Cairo, Egypt

⁵Department of Microbial Biotechnology, Division of Genetic Engineering & Biotechnology, National Research Centre, 12622, Cairo, Egypt

⁶Department of Biochemistry, Division of Genetic Engineering and Biotechnology, National Research Centre, 12622, Cairo, Egypt

⁷Pesticide Chemistry Department, National Research Centre, 12622, Cairo, Egypt



Download English Version:

<https://daneshyari.com/en/article/5158991>

Download Persian Version:

<https://daneshyari.com/article/5158991>

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