

## Accepted Manuscript

Structure-based design, synthesis and biological testing of piperazine-linked bis-epipodophyllotoxin etoposide analogs

Arun A. Yadav, Gaik-Lean Chee, Xing Wu, Daywin Patel, Jack C. Yalowich, Brian B. Hasinoff

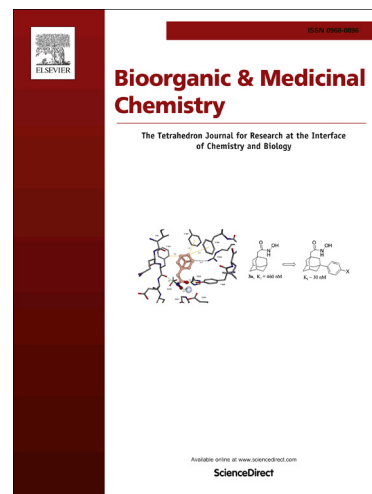
PII: S0968-0896(15)00320-X  
DOI: <http://dx.doi.org/10.1016/j.bmc.2015.04.022>  
Reference: BMC 12234

To appear in: *Bioorganic & Medicinal Chemistry*

Received Date: 9 February 2015  
Revised Date: 1 April 2015  
Accepted Date: 9 April 2015

Please cite this article as: Yadav, A.A., Chee, G-L., Wu, X., Patel, D., Yalowich, J.C., Hasinoff, B.B., Structure-based design, synthesis and biological testing of piperazine-linked bis-epipodophyllotoxin etoposide analogs, *Bioorganic & Medicinal Chemistry* (2015), doi: <http://dx.doi.org/10.1016/j.bmc.2015.04.022>

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.



**Structure-based design, synthesis and biological testing of piperazine-linked bis-  
epipodophyllotoxin etoposide analogs**

Arun A. Yadav<sup>a</sup>, Gaik-Lean Chee<sup>a</sup>, Xing Wu<sup>a</sup>, Daywin Patel<sup>a</sup>, Jack C. Yalowich<sup>b</sup> and Brian B.  
Hasinoff<sup>a,\*</sup>

<sup>a</sup> College of Pharmacy, Apotex Centre, University of Manitoba, 750 McDermot Ave, Winnipeg,  
Manitoba R3E 0T5, Canada

<sup>b</sup> College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, Ohio  
43210, USA

\*Corresponding author. Tel: +1 204 474 8325; fax: +1 204 474 7617. *E-mail address:*

B\_Hasinoff@UManitoba.ca (B. B. Hasinoff)

*Keywords:* epipodophyllotoxin; topoisomerase II; etoposide; structure-based design; anticancer;  
DNA; COMPARE; K562 cells; molecular modeling; docking

Download English Version:

<https://daneshyari.com/en/article/10582407>

Download Persian Version:

<https://daneshyari.com/article/10582407>

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