Accepted Manuscript

Synthesis of novel proxyphylline derivatives with dual Anti-Candida albicans and anticancer activity

Paweł Borowiecki, Patrycja Wińska, Maria Bretner, Małgorzata Gizińska, Mirosława Koronkiewicz, Monika Staniszewska

PII: S0223-5234(18)30214-9

DOI: 10.1016/j.ejmech.2018.02.077

Reference: EJMECH 10254

To appear in: European Journal of Medicinal Chemistry

Received Date: 21 December 2017
Revised Date: 10 February 2018
Accepted Date: 23 February 2018

Please cite this article as: Paweł. Borowiecki, P. Wińska, M. Bretner, Mał. Gizińska, Mirosł. Koronkiewicz, M. Staniszewska, Synthesis of novel proxyphylline derivatives with dual Anti-Candida albicans and anticancer activity, European Journal of Medicinal Chemistry (2018), doi: 10.1016/j.ejmech.2018.02.077.

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

Dual Anticancer-Antifungal Agent		CCRF-CEM*	Non-toxic in vitro
1,2,3-triazole N N N Br		EC ₅₀ = 6.5 μM	IC ₅₀ >280 μM (normal mammalian Vero cell line)
م محم	TBBt	C. albicans**	Non-toxic in vivo
N N N N N Proxyphylline		MIC = 5 μM	Non-toxic against Galleria mellonella
Selectively Cidal Proxyphylline Derivatives			
Chitin	Biofilm apoptotic cell death		$oldsymbol{eta}$ -glucan
SI = 550±43 μM		ndrial demage 20–248 μΜ	Host immune defense's stimulation

^{*} Human acute lymphoblastic leukemia cell line; ** ATCC 90028 reference yeast strain from American Type Culture Collection.

Download English Version:

https://daneshyari.com/en/article/7796538

Download Persian Version:

https://daneshyari.com/article/7796538

<u>Daneshyari.com</u>