

Accepted Manuscript

Piperlongumine (piplartine) as a lead compound for anticancer agents – Synthesis and properties of analogues

Kamil Piska, Agnieszka Gunia-Krzyżak, Paulina Koczurkiewicz, Katarzyna Wójcik-Pszczola, Elżbieta Pękala



PII: S0223-5234(18)30548-8

DOI: [10.1016/j.ejmech.2018.06.057](https://doi.org/10.1016/j.ejmech.2018.06.057)

Reference: EJMECH 10527

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 20 October 2017

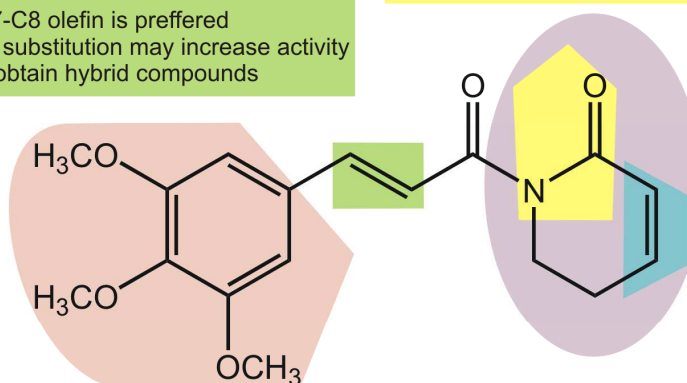
Revised Date: 22 June 2018

Accepted Date: 23 June 2018

Please cite this article as: K. Piska, A. Gunia-Krzyżak, P. Koczurkiewicz, K. Wójcik-Pszczola, Elż. Pękala, Piperlongumine (piplartine) as a lead compound for anticancer agents – Synthesis and properties of analogues, *European Journal of Medicinal Chemistry* (2018), doi: 10.1016/j.ejmech.2018.06.057.

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.

1. Presence of C7-C8 olefin is preferred
2. C7 alkyl or aryl substitution may increase activity and is used to obtain hybrid compounds



1. Nitrogen atom may be replaced by carbon
2. Carbonyl moiety may be replaced by sulfonamide

1. Can be replaced by other heterocycles

1. Other aromatics are acceptable
2. Strongly electron withdrawing groups increase activity
3. Possible linker for hybrid compounds/oligomers

1. Presence and electrophilicity determines drug cytotoxicity and ROS-generating activity
2. C2 substitution can provide increased activity (e.g. 2-chloro)

ACCEPTED MANUSCRIPT

Download English Version:

<https://daneshyari.com/en/article/7795931>

Download Persian Version:

<https://daneshyari.com/article/7795931>

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