

# Accepted Manuscript

Novel Gomisin B analogues as potential cytotoxic agents: Design, synthesis, biological evaluation and docking studies

B. Poornima, Bandi Siva, A. Venkanna, G. Shankaraiah, Nishant Jain, Dharmendra Kumar Yadav, Sanjeev Misra, K. Suresh Babu



PII: S0223-5234(17)30598-6

DOI: [10.1016/j.ejmech.2017.07.076](https://doi.org/10.1016/j.ejmech.2017.07.076)

Reference: EJMECH 9639

To appear in: *European Journal of Medicinal Chemistry*

Received Date: 17 May 2017

Revised Date: 26 July 2017

Accepted Date: 31 July 2017

Please cite this article as: B. Poornima, B. Siva, A. Venkanna, G. Shankaraiah, N. Jain, D.K. Yadav, S. Misra, K.S. Babu, Novel Gomisin B analogues as potential cytotoxic agents: Design, synthesis, biological evaluation and docking studies, *European Journal of Medicinal Chemistry* (2017), doi: 10.1016/j.ejmech.2017.07.076.

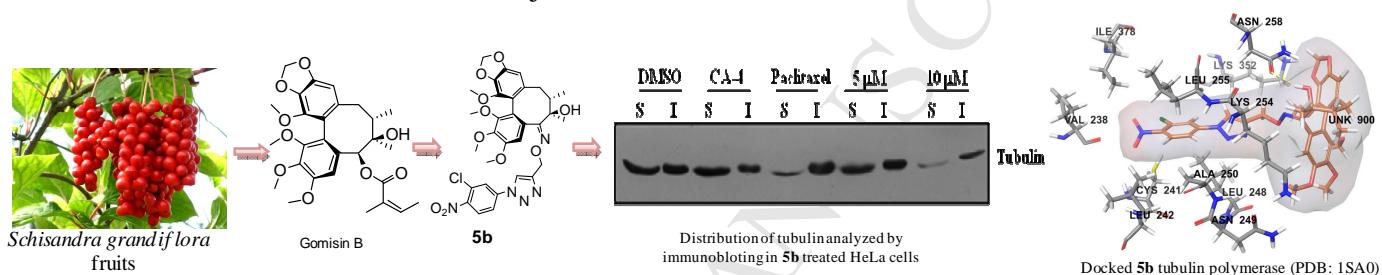
This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please 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

### Novel Gomisin B Analogues as Potential cytotoxic Agents: Design, Synthesis, Biological evaluation and Docking Studies

B. Poornima, Bandi Siva, A.Venkanna, G. Shankaraiah, Nishant Jain, Dharmendra Kumar

Yadav, Sanjeev Misra, K. Suresh Babu.\*



A series of 1, 2,3-triazoles derivatives were synthesized at the C-7' position of the gomisin B core through click protocol. Among them, cell cycle analysis indicated that compound **5b** caused a cell cycle arrest of HeLa cells at G2/M phase and also promoted tubulin polymerization, similar to Paclitaxel. Overall, we identified a novel small molecule that demonstrated anticancer activity by promoting *in vivo* tubulin assembly.

Download English Version:

<https://daneshyari.com/en/article/5158467>

Download Persian Version:

<https://daneshyari.com/article/5158467>

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