



Potentially active aspirin derivative to release nitric oxide: In-vitro, In-vivo and in-silico approaches

Amruta M. Amritkar, Afzal Hussain, Mohammad A. Altamimi, Sumel Ashique, **Mohd Usman Mohd Siddique**, Sushil Burle, Anwar R. Shaikh, **Sameer N. Goyal**, Zahid R. Bhat

PII: S1319-0164(23)00420-6  
DOI: <https://doi.org/10.1016/j.jsps.2023.101925>  
Reference: SPJ 101925

To appear in: *Saudi Pharmaceutical Journal*

Received Date: 30 May 2023  
Revised Date: 13 December 2023  
Accepted Date: 14 December 2023

Please cite this article as: Amritkar, A.M., Hussain, A., Altamimi, M.A., Ashique, S., Usman Mohd Siddique, M., Burle, S., Shaikh, A.R., Goyal, S.N., Bhat, Z.R., Potentially active aspirin derivative to release nitric oxide: In-vitro, In-vivo and in-silico approaches, *Saudi Pharmaceutical Journal* (2023), doi: <https://doi.org/10.1016/j.jsps.2023.101925>

This is a PDF file of an article that has undergone enhancements after acceptance, such as the addition of a cover page and metadata, and formatting for readability, but it is not yet the definitive version of record. This version will undergo additional copyediting, typesetting and review before it is published in its final form, but we are providing this version to give early visibility of the article. 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.

© 2023 The Author(s). Published by Elsevier B.V. on behalf of King Saud University.

# Potentially active aspirin derivative to release nitric oxide: In-vitro, In-vivo and in-silico approaches

Amruta M. Amritkar<sup>1</sup>, Afzal Hussain<sup>2\*</sup>, Mohammad A. Altamimi<sup>2</sup>, Sumel Ashique<sup>3</sup>,  
Mohd Usman Mohd Siddique<sup>1</sup>, Sushil Burle<sup>4</sup>, Anwar R. Shaikh<sup>5</sup>, Sameer N. Goyal<sup>6</sup>,  
Zahid R. Bhat<sup>7</sup>

<sup>1</sup>Department of Pharmaceutical Chemistry, Shri Vile Parle Kelavani Mandal's Institute of Pharmacy Dhule (MH)-424001, India

<sup>2</sup>Department of Pharmaceutics, College of Pharmacy, King Saud University, Riyadh, 11451, Saudi Arabia

<sup>3</sup>Department of Pharmaceutics, Bharat Institute of Technology, Meerut, Uttar Pradesh, India

<sup>4</sup>SMT Kishoritai Bhoyar College of Pharmacy, New Kamptee, Nagpur (MH), India

<sup>5</sup>MCE's Society, Allana College of Pharmacy, Pune (MH), India

<sup>6</sup>Department of Pharmacology, Shri Vile Parle Kelavani Mandal's Institute of Pharmacy Dhule (MH)-424001, India

<sup>7</sup>Department of Molecular and Cellular oncology, MD Anderson Cancer Centre, Houston, Texas, USA.

(zrbhat@mdanderson.org)

\*Correspondence: amohammed2@ksu.edu.sa; Phone: 07366800997

Already have a manuscript?  
Use our Manuscript Matcher to find the best relevant journals!

[Find a Match](#)

Filters [Clear All](#)

- Web of Science Coverage
- Open Access
- Category
- Country / Region
- Language
- Frequency
- Journal Citation Reports

### Refine Your Search Results

Saudi Pharmaceutical Journal [Search](#) Sort By: Relevancy

### Search Results

Found 94 results (Page 1) [Share These Results](#)

### Exact Match Found

**SAUDI PHARMACEUTICAL JOURNAL** [Open Access](#)

Publisher: ELSEVIER, RADARWEG 29, AMSTERDAM, Netherlands, 1043 NX  
ISSN / eISSN: 1319-0164 / 2213-7475  
Web of Science Core Collection: Science Citation Index Expanded  
Additional Web of Science Indexes: Essential Science Indicators

[Share This Journal](#) [View profile page](#)  
\*Requires free login.

### Other Possible Matches

ADVANCED PHARMACEUTICAL BULLETIN [Open Access](#)