## **Accepted Manuscript**

Anti-nitric oxide production, anti-proliferation and antioxidant effects of the aqueous extract from Tithonia diversifolia

Poonsit Hiransai, Jitbanjong Tangpong, Chuthamat Kumbuar, Namon Hoonheang, Onrunee Rodpech, Padchara Sangsuk, Urairat Kajklangdon, Waraphorn Inkaow

A sian Pacific Journal of Tropical Biomedicine

PII: S2221-1691(16)30790-0

DOI: 10.1016/j.apjtb.2016.02.002

Reference: APJTB 366

To appear in: Asian Pacific Journal of Tropical Biomedicine

Received Date: 19 October 2015
Revised Date: 7 January 2016
Accepted Date: 23 February 2016

Please cite this article as: Hiransai P, Tangpong J, Kumbuar C, Hoonheang N, Rodpech O, Sangsuk P, Kajklangdon U, Inkaow W, Anti-nitric oxide production, anti-proliferation and antioxidant effects of the aqueous extract from Tithonia diversifolia, *Asian Pacific Journal of Tropical Biomedicine* (2016), doi: 10.1016/j.apjtb.2016.02.002.

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

**Title:** Anti-nitric oxide production, anti-proliferation and antioxidant effects of the aqueous extract from *Tithonia diversifolia* 

#### **Authors:**

Poonsit Hiransai<sup>1,2\*</sup>, Jitbanjong Tangpong<sup>2,3</sup>, Chuthamat Kumbuar<sup>2</sup>, Namon Hoonheang<sup>2</sup>, Onrunee Rodpech<sup>2</sup>, Padchara Sangsuk<sup>2</sup>, Urairat Kajklangdon<sup>2</sup>, Waraphorn Inkaow<sup>2</sup>

#### **Affiliations:**

<sup>1</sup>Molecular Medicine and Cancer Biology Research Unit, School of Allied Health Sciences and Public Health, Walailak University, Nakhon Si Thammarat 80161, Thailand

<sup>2</sup>Department of Medical Technology, School of Allied Health Sciences and Public Health, Walailak University, Nakhon Si Thammarat 80161, Thailand

<sup>3</sup>Biomedical Sciences Research Unit, School of Allied Health Sciences and Public Health, Walailak University, Nakhon Si Thammarat 80161, Thailand

Keywords:

Tithonia diversifolia

Anti-nitric oxide production

Anti-proliferation

Antioxidant

\*Corresponding author: Poonsit Hiransai, Molecular Medicine and Cancer Biology Research Unit, School of Allied Health Sciences and Public Health, Walailak University, Nakhon Si Thammarat 80161, Thailand.

Tel: +66 75672104 Fax: +66 75672105

E-mail: poonsit.hi@wu.ac.th, poonsit.hi@gmail.com

The human peripheral blood mononuclear cells were collected from healthy volunteers under the project approval by the Ethical Committee on Human Rights Related to Researches Involving Human Subjects, Walailak University (Protocol number: 11/055).

Foundation Project: Supported by the Institute of Research and Development, Walailak University, Thailand (Grant No. WU55304).

Peer review under responsibility of Hainan Medical University. The journal implements double-blind peer review practiced by specially invited international editorial board members.

This manuscript included 0 table and 5 figures.

Article history:

Received 19 Oct 2015

Received in revised form 6 Nov, 2nd revised form 12 Dec 2015, 3rd revised form 7 Jan 2016

Accepted 23 Feb 2016

Available online

### Download English Version:

# https://daneshyari.com/en/article/8369007

Download Persian Version:

https://daneshyari.com/article/8369007

<u>Daneshyari.com</u>