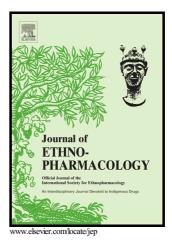
# Author's Accepted Manuscript

*Andrographis paniculata*: Dissolution investigation and pharmacokinetic studies of four major active diterpenoids after multiple oral dose administration in healthy Thai volunteers

Nanthanit Pholphana, Duangchit Panomvana, Nuchanart Rangkadilok, Tawit Suriyo, Porranee Puranajoti, Teerapat Ungtrakul, Wanwisa Pongpun, Saichit Thaeopattha, Phanit Songvut, Jutamaad Satayavivad



PII:S0378-8741(16)31097-2DOI:http://dx.doi.org/10.1016/j.jep.2016.09.058Reference:JEP10458

To appear in: Journal of Ethnopharmacology

Received date: 9 December 2015Revised date: 28 September 2016Accepted date: 30 September 2016

Cite this article as: Nanthanit Pholphana, Duangchit Panomvana, Nuchanai Rangkadilok, Tawit Suriyo, Porranee Puranajoti, Teerapat Ungtrakul, Wanwisa Pongpun, Saichit Thaeopattha, Phanit Songvut and Jutamaad Satayavivad *Andrographis paniculata*: Dissolution investigation and pharmacokinetic studie of four major active diterpenoids after multiple oral dose administration i healthy Thai volunteers, *Journal of Ethnopharmacology* http://dx.doi.org/10.1016/j.jep.2016.09.058

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

Andrographis paniculata: Dissolution investigation and pharmacokinetic studies of four major active diterpenoids after multiple oral dose administration in healthy Thai volunteers

Nanthanit Pholphana<sup>a,1</sup>, Duangchit Panomvana<sup>b,1</sup>, Nuchanart Rangkadilok<sup>a,c</sup>, Tawit Suriyo<sup>a</sup>, Porranee Puranajoti<sup>b</sup>, Teerapat Ungtrakul<sup>d</sup>, Wanwisa Pongpun<sup>d</sup>, Saichit Thaeopattha<sup>b</sup>, Phanit Songvut<sup>b</sup>, Jutamaad Satayavivad<sup>a,c,e\*</sup>

<sup>a</sup>Laboratory of Pharmacology, Chulabhorn Research Institute, Bangkok 10210, Thailand <sup>b</sup>Translational Research Unit, Chulabhorn Research Institute, Bangkok 10210, Thailand <sup>c</sup>Environmental Toxicology Program, Chulabhorn Graduate Institute, Bangkok, 10210, Thailand

<sup>d</sup>Chulabhorn Hospital, Bangkok 10210, Thailand

<sup>e</sup>Center of Excellence on Environmental Health and Toxicology, Office of Higher Education Commission, Ministry of Education, Bangkok, 10400, Thailand

\***Corresponding author:** Laboratory of Pharmacology, Chulabhorn Research Institute, 54 Kamphaeng Phet 6 Rd. Laksi, Bangkok 10210, Thailand. Tel.: +66 2 553 8555 ext. 8539. fax: +66 2 553 8526. jutamaad@cri.or.th

#### Abstract

### Ethnopharmacological relevance:

Andrographis paniculata is included in 'The National List of Essential Herbal Drugs A.D. 1999' of Thailand as an herbal drug for the treatment of common cold symptoms and noninfectious diarrhea. The therapeutic activities of A. paniculata are attributed to four major active diterpenoids: andrographolide (1), 14-deoxy-11, 12-didehydroandrographolide (2), neoandrographolide (3), and 14-deoxyandrographolide (4). However, the pharmacokinetic

<sup>&</sup>lt;sup>1</sup> Equally contributing authors

Download English Version:

# https://daneshyari.com/en/article/5834442

Download Persian Version:

https://daneshyari.com/article/5834442

Daneshyari.com