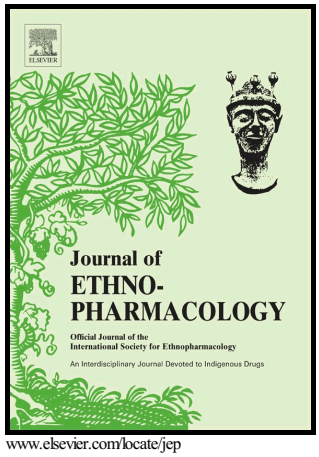

www.elsevier.com/locate/jep

Longan (*Dimocarpus longan* Lour.) inhibits lipopolysaccharide-stimulated nitric oxide production in macrophages by suppressing NF-κB and AP-1 signaling pathways

Nongluk Kunworarath, Nuchanart Rangkadilok, Tawit Suriyo, Apinya Thiantanawat, Jutamaad Satayavivad

PII: S0378-8741(15)30295-6
DOI: http://dx.doi.org/10.1016/j.jep.2015.12.044
Reference: JEP9894

To appear in: *Journal of Ethnopharmacology*

Received date: 4 September 2015
Revised date: 27 November 2015
Accepted date: 21 December 2015

Cite this article as: Nongluk Kunworarath, Nuchanart Rangkadilok, Tawi Suriyo, Apinya Thiantanawat and Jutamaad Satayavivad, Longan (*Dimocarpu longan* Lour.) inhibits lipopolysaccharide-stimulated nitric oxide production i macrophages by suppressing NF-κB and AP-1 signaling pathways, *Journal o Ethnopharmacology,* http://dx.doi.org/10.1016/j.jep.2015.12.044

Longan (*Dimocarpus longan* Lour.) inhibits lipopolysaccharide-stimulated nitric oxide production in macrophages by suppressing NF-κB and AP-1 signaling pathways

Nongluk Kunworarath[a,b], Nuchanart Rangkadilok[a,c,d], Tawit Suriyo[a], Apinya Thiantanawat[a,b,d], Jutamaad Satayavivad[a,c,d]*

[a]*Laboratory of Pharmacology, Chulabhorn Research Institute, Bangkok, 10210, Thailand*

[b]*Applied Biological Sciences Program, Chulabhorn Graduate Institute, Bangkok, 10210, Thailand*

[c]*Environmental Toxicology Program, Chulabhorn Graduate Institute, Bangkok, 10210, Thailand*

[d]*Center of Excellence on Environmental Health and Toxicology, Office of Higher Education Commission, Ministry of Education, Bangkok 10400, Thailand*

*Corresponding author:

Assoc. Prof. Jutamaad Satayavivad, Ph.D.

Laboratory of Pharmacology Chulabhorn Research Institute

54 Kamphaeng Phet 6 Rd.

Talat Bang Khen, Laksi, Bangkok 10210, Thailand

Tel.: +66 2 5538555 ext. 8539

Fax: +66 2 5538562

E-mail address: jutamaad@cri.or.th

Abstract

Ethnopharmacological relevance: Flower, seed, and fruit of longan (*Dimocarpus longan* Lour.) have been used in the Traditional Chinese Medicine (TCM) serving as a common herb