

Mast cell degranulation and calcium influx are inhibited by an *Echinacea purpurea* extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide

Travis V. Gulledge, Nicholas M. Collette, Emily Mackey, Stephanie E. Johnstone, Yasamin Moazami, Daniel A. Todd, Adam J. Moeser, Joshua G. Pierce, Nadja B. Cech, Scott M. Laster



PII: S0378-8741(17)32255-9
DOI: <https://doi.org/10.1016/j.jep.2017.10.012>
Reference: JEP11066

To appear in: *Journal of Ethnopharmacology*

Received date: 13 June 2017
Revised date: 5 October 2017
Accepted date: 13 October 2017

Cite this article as: Travis V. Gulledge, Nicholas M. Collette, Emily Mackey, Stephanie E. Johnstone, Yasamin Moazami, Daniel A. Todd, Adam J. Moeser, Joshua G. Pierce, Nadja B. Cech and Scott M. Laster, Mast cell degranulation and calcium influx are inhibited by an *Echinacea purpurea* extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide, *Journal of Ethnopharmacology*, <https://doi.org/10.1016/j.jep.2017.10.012>

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 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.

Mast cell degranulation and calcium influx are inhibited by an *Echinacea purpurea* extract and the alkylamide dodeca-2E,4E-dienoic acid isobutylamide

Travis V. Gulledge^{a,e}, Nicholas M. Collette^{a,e}, Emily Mackey^b, Stephanie E. Johnstone^{a,e}, Yasamin Moazami^c, Daniel A. Todd^d, Adam J. Moeser^b, Joshua G. Pierce^{c,e}, Nadja B. Cech^d and Scott M. Laster^{a,e}

^aDepartment of Biological Sciences, North Carolina State University, Raleigh, NC 27695 United States

^bDepartment of Large Animal Clinical Sciences, Michigan State University, East Lansing, MI 48824 United States

^cDepartment of Chemistry, North Carolina State University, Raleigh, NC 27695 United States

^dDepartment of Chemistry and Biochemistry, University of North Carolina at Greensboro, Greensboro, NC 27402 United States

^eComparative Medicine Institute, North Carolina State University, Raleigh, NC 27695 United States

Address correspondence and reprint requests to Dr. Scott Laster, North Carolina State University, 112 Derieux Place, 4514 Thomas Hall, Campus Box 7615, Raleigh, NC 27695. Phone: +1 (919) 515-7958, E-mail address: scott_laster@ncsu.edu

Download English Version:

<https://daneshyari.com/en/article/8532637>

Download Persian Version:

<https://daneshyari.com/article/8532637>

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