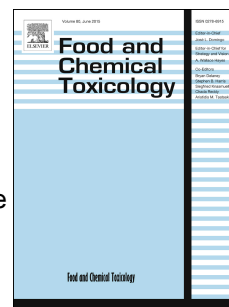


Accepted Manuscript

Saponins from stems and leaves of *Panax ginseng* prevent obesity via regulating thermogenesis, lipogenesis and lipolysis in high-fat diet-induced obese C57BL/6 mice

Guilin Chen, Haijun Li, Yan Zhao, Hongyan Zhu, Enbo Cai, Yugang Gao, Shuangli Liu, He Yang, Lianxue Zhang



PII: S0278-6915(17)30320-4

DOI: [10.1016/j.fct.2017.06.012](https://doi.org/10.1016/j.fct.2017.06.012)

Reference: FCT 9119

To appear in: *Food and Chemical Toxicology*

Received Date: 12 December 2016

Revised Date: 2 June 2017

Accepted Date: 5 June 2017

Please cite this article as:

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.

Saponins from stems and leaves of *Panax ginseng* prevent obesity via regulating thermogenesis, lipogenesis and lipolysis in high-fat diet-induced obese C57BL/6 mice¹

Guilin Chen^a, Haijun Li^b, Yan Zhao^{a*}, Hongyan Zhu^a, Enbo Cai^a, Yugang Gao^{a*},

Shuangli Liu^a, He Yang^a, Lianxue Zhang^a

a. College of Chinese Medicinal Materials, Jilin Agriculture University, Changchun, China

b. Institute of translational medicine, the First Hospital of Jilin University, Changchun, China

¹ Abbreviations: aP2, adipocyte fatty acid binding protein 2; ATGL, adipose triglyceride lipase; CD36, cluster of differentiation 36; CPT-1, carnitine O-palmitoyltransferase 1; FFA, free fatty acids; FAS, fatty acid synthase; FATP2, fatty acid transport protein 2; HDL, high-density lipoprotein-cholesterol; HE, hamatoxylin and eosin; HSL, hormone sensitive lipase; HFD, high fat diet; HPLC, high-performance liquid chromatography; LDL, low density lipoprotein cholesterol; LFD, low fat diet; Pair-Fed, feed with an HFD in pair-fed experiment; Pair-SLG/H, feed with HFD plus 500 mg/kg SLG in pair-fed experiment; PPAR α , peroxisome proliferator-activated receptor alpha; PPAR γ , peroxisome proliferator-activated receptor gamma; PGC-1 α , peroxisome proliferator-activatedreceptor- γ coactivator; SLG, saponins from stems and leaves of *Panax ginseng*; TC, total cholesterol; TG, triglyceride; UCP, uncoupling protein.

Download English Version:

<https://daneshyari.com/en/article/5560137>

Download Persian Version:

<https://daneshyari.com/article/5560137>

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