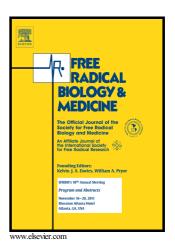
Author's Accepted Manuscript

Procyanidin B2 ameliorates free fatty acids-induced hepatic steatosis through regulating TFEB-mediated lysosomal pathway and redox state

Hongming Su, Yuting Li, Dongwen Hu, Lianghua Xie, Huihui Ke, Xiaodong Zheng, Wei Chen



PII: S0891-5849(18)31439-4

DOI: https://doi.org/10.1016/j.freeradbiomed.2018.08.024

Reference: FRB13888

To appear in: Free Radical Biology and Medicine

Received date: 29 April 2018 Revised date: 19 August 2018 Accepted date: 20 August 2018

Cite this article as: Hongming Su, Yuting Li, Dongwen Hu, Lianghua Xie, Huihui Ke, Xiaodong Zheng and Wei Chen, Procyanidin B2 ameliorates free fatty acids-induced hepatic steatosis through regulating TFEB-mediated lysosomal pathway and redox state, *Free Radical Biology and Medicine*, https://doi.org/10.1016/j.freeradbiomed.2018.08.024

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.

ACCEPTED MANUSCRIPT

Procyanidin B2 ameliorates free fatty acids-induced hepatic steatosis through regulating TFEB-mediated lysosomal pathway and redox state

Hongming Su, Yuting Li, Dongwen Hu, Lianghua Xie, Huihui Ke, Xiaodong Zheng, Wei Chen*

Department of Food Science and Nutrition, National Engineering Laboratory of Intelligent Food Technology and Equipment, Zhejiang Key Laboratory for Agro-Food Processing, Zhejiang University, Hangzhou 310058, China.

*Corresponding author. Wei Chen, Ph.D. Department of Food Science and Nutrition, Zhejiang University, No.866 Yuhangtang Road, Xihu District, Hangzhou 310058, China. Tel.: +86 571 88982861; fax: +86 571 88982191. zjuchenwei@zju.edu.cn

Abstract

Procyanidin B2, a naturally occurring phenolic compound, has been reported to exert multiple beneficial functions. However, the effect of procyanidin B2 on free fatty acids (FFAs)-induced hepatic steatosis remains obscure. The present study is therefore aimed to elucidate the protective effect of procyanidin B2 against hepatic steatosis and its underlying mechanism. Herein, we reported that procyanidin B2 attenuated FFAs-induced lipid accumulation and its associated oxidative stress by scavenging excessive ROS and superoxide anion radicals, blocking loss of mitochondrial

Download English Version:

https://daneshyari.com/en/article/9954017

Download Persian Version:

https://daneshyari.com/article/9954017

<u>Daneshyari.com</u>