

## Supplementary Materials

### Trichosanthis Pericarpium Aqueous Extract Protects H9c2 Cardiomyocytes from Hypoxia/Reoxygenation Injury by Regulating PI3K/Akt/NO Pathway

Donghai Chu <sup>1,2</sup>, and Zhenqiu Zhang <sup>1,\*</sup>

<sup>1</sup> Liaoning University of Traditional Chinese Medicine, NO. 77 Shengming 1st Road, Dalian 11600, Liaoning, China; chubotany@sina.cn (D.C.)

<sup>2</sup> Liaoning Institute of Science and Technology, NO.76 Xianghuai Road, Benxi 117004, Liaoning, China

\* Correspondence: zhangzhenqiu@sina.com; Tel.: +86-411-8589-0199

#### Content:

Table S1 The analytical condition for gradient elution of mobile phases.....	2
Table S2 Interactive similarities of TP from different origins. ....	2
Figure S1. The chromatogram of TP samples and the generated reference standard fingerprint.....	3
Table S3 Contents of total flavones in TP from different origins. ....	3

**Table S1 The analytical condition for gradient elution of mobile phases.**

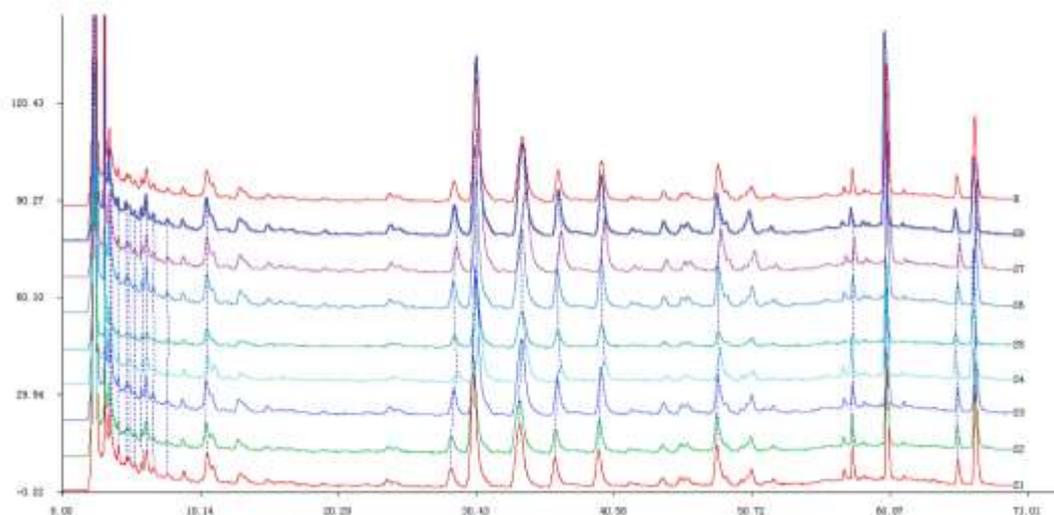
Time (min)	Mobile phase A	Mobile phase B
0	13.5	86.5
30	16.5	83.5
40	19.5	80.5
50	23.0	77.0
60	35.0	65.0
80	40.0	60.0

Notes: Mobile phase A: methanol mixed with acetonitrile at a volume ratio of 1:10; Mobile phase B: 0.1% phosphate aqueous solution. HPLC fingerprints were performed on an Agilent 1100 series HPLC system. The chromatographic separation was carried out on a Cosmosil MS-II C18 column (250 mm×4.6 mm, 5 μm), operated at 25°C. The analytical condition was set as shown in Table 1. The flow rate was 1.0 mL / min and the detection wavelength was set at 360 nm with the sample injection volume of 20 μL.

**Table S2 Interactive similarities of TP from different origins.**

Sample number	S <sub>1</sub>	S <sub>2</sub>	S <sub>3</sub>	S <sub>4</sub>	S <sub>5</sub>	S <sub>6</sub>	S <sub>7</sub>	S <sub>8</sub>	Standard fingerprint
S <sub>1</sub>	1	0.97	0.993	0.956	0.974	0.987	0.981	0.959	0.996
S <sub>2</sub>	0.97	1	0.967	0.926	0.949	0.965	0.958	0.942	0.974
S <sub>3</sub>	0.993	0.967	1	0.933	0.971	0.996	0.991	0.98	0.997
S <sub>4</sub>	0.956	0.926	0.933	1	0.925	0.91	0.912	0.882	0.941
S <sub>5</sub>	0.974	0.949	0.971	0.925	1	0.973	0.975	0.954	0.978
S <sub>6</sub>	0.987	0.965	0.996	0.91	0.973	1	0.993	0.982	0.995
S <sub>7</sub>	0.981	0.958	0.991	0.912	0.975	0.993	1	0.983	0.992
S <sub>8</sub>	0.959	0.942	0.98	0.882	0.954	0.982	0.983	1	0.975
Standard fingerprint	0.996	0.974	0.997	0.941	0.978	0.995	0.992	0.975	1

Notes: (S<sub>1</sub>: Hebei Province, S<sub>2</sub>: Sichuan Province, S<sub>3</sub>: Guizhou Province, S<sub>4</sub>: Yunnan Province, S<sub>5</sub>: Henan Province, S<sub>6</sub>: Shandong Province, S<sub>7</sub>: Shanxi Province, S<sub>8</sub>: Anhui Province)



**Figure S1. The chromatogram of TP samples and the generated reference standard fingerprint.**

Note: S<sub>1</sub>-S<sub>8</sub>: fingerprints of 8 batches of TP samples from different origins; R: reference standard fingerprint created by Similarity evaluation system for chromatographic fingerprint of traditional Chinese Medicine, version 2004 A.

**Table S3 Contents of total flavones in TP from different origins.**

Sample number	Contents of total flavones(mg/g)	Mean (mg/g)	RSD
S <sub>1</sub>	5.829		
S <sub>2</sub>	5.989		
S <sub>3</sub>	6.014		
S <sub>4</sub>	6.126		
S <sub>5</sub>	6.296	6.128	2.96%
S <sub>6</sub>	6.365		
S <sub>7</sub>	6.125		
S <sub>8</sub>	6.282		