

Article

Novel plant extract ameliorates metabolic disorder through activation of brown adipose tissue in high-fat diet-induced obese mice

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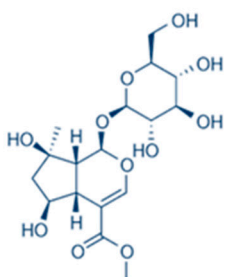
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I . Supplementary Figures

A



Shanzhiside methyl ester

B

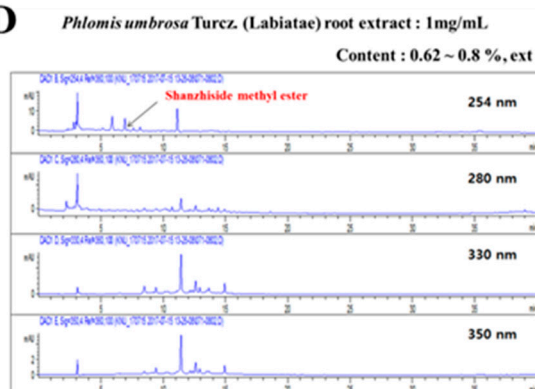


Phlomis umbrosa Turcz. (Labiatae)

C



D



E

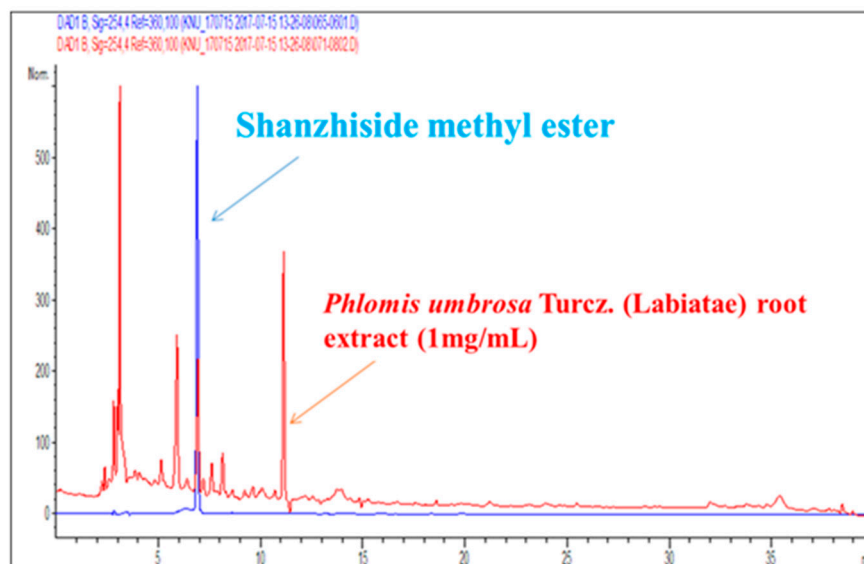


Figure S1. The shanzhiside methyl ester content of *Phlomis umbrosa* Turcz. by HPLC analysis

II. Supplementary Tables

Table S1. Pearson correlation analysis in HFD and PUE groups

A		HOMA-IR	BWG (g/day)	Perirenal WAT (g/ 100g BW)	Mesenteric WAT (g/ 100g BW)	Subcutaneous WAT (g/ 100g BW)
HFD	Pearson Correlation	1	.895*	0.875	.952*	0.570
	Sig. (2-tailed)		0.040	0.321	0.013	0.316
PUE	Pearson Correlation	1	0.334	0.482	0.286	0.101
	Sig. (2-tailed)		0.517	0.333	0.583	0.848

B		Liver (g/ 100g BW)	Plasma GOT (karman/mL)
HFD	Pearson Correlation	1	.910**
	Sig. (2-tailed)		0.002
PUE	Pearson Correlation	1	-0.132
	Sig. (2-tailed)		0.778

C		BWG (g/day)	sub_UCP1 (mRNA level)
HFD	Pearson Correlation	1	-0.245
	Sig. (2-tailed)		0.524
PUE	Pearson Correlation	1	-.736*
	Sig. (2-tailed)		0.037

HFD, high-fat diet (60 kcal% fat); PUE, HFD + *P. umbrosa* root extract (1% w/w). HOMA-IR, homeostasis model assessment of insulin resistance; BWG,

Body weight gain; WAT, white adipose tissue; GOT, glutamic oxaloacetic transaminase; sub, subcutaneous; *Ucp1*, Uncoupling protein 1