【supplementary information】

Alpinumisoflavone attenuates lipopolysaccharide-induced acute lung injury by regulating the effects of anti-oxidation and anti-inflammation both *in vitro* and *in vivo*

Pei-Ying Li,[†,§] Yu-Chia Liang,[‡,§] Ming-Jyh Sheu,[†] Shyh-Shyun Huang,[†] Che-Yi Chao,[¶] Yueh-Hsiung Kuo,[‡] and Guan-Jhong Huang[*,‡]

[†] School of Pharmacy, College of Pharmacy, China Medical University, Taichung 40402, Taiwan

[‡] Department of Chinese Pharmaceutical Sciences and Chinese Medicine Resources, College of Chinese Medicine, China Medical University, Taichung 40402, Taiwan

[¶] Department of Food Nutrition and Health Biotechnology, Asia University, Taichung 41354, Taiwan

[*]Corresponding author:

Dr. Guan-Jhong Huang:gjhuang@mail.cmu.edu.tw; Tel: +886-4-22053366 Ext. 5508

[§]Equal contributors

Received: date; Accepted: date; Published: date

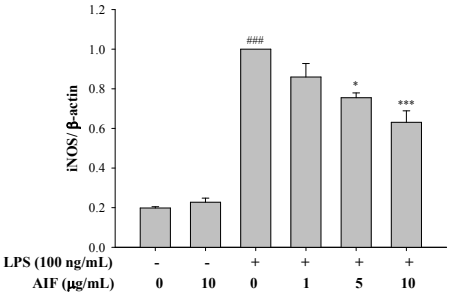

Figure S1. Effects of AIF regarding the expression of iNOS in LPS-induced MH-S cells.

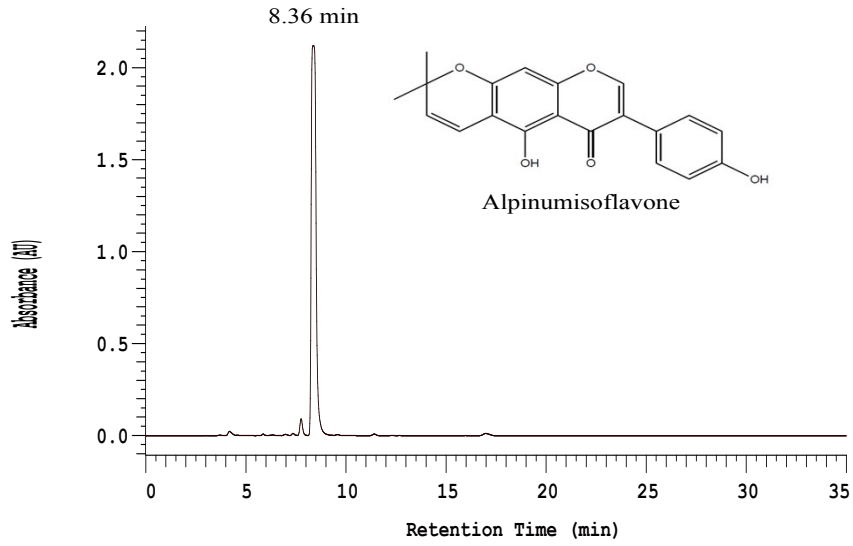

Figure S2. The HPLC profile of alpinumisoflavone (AIF).

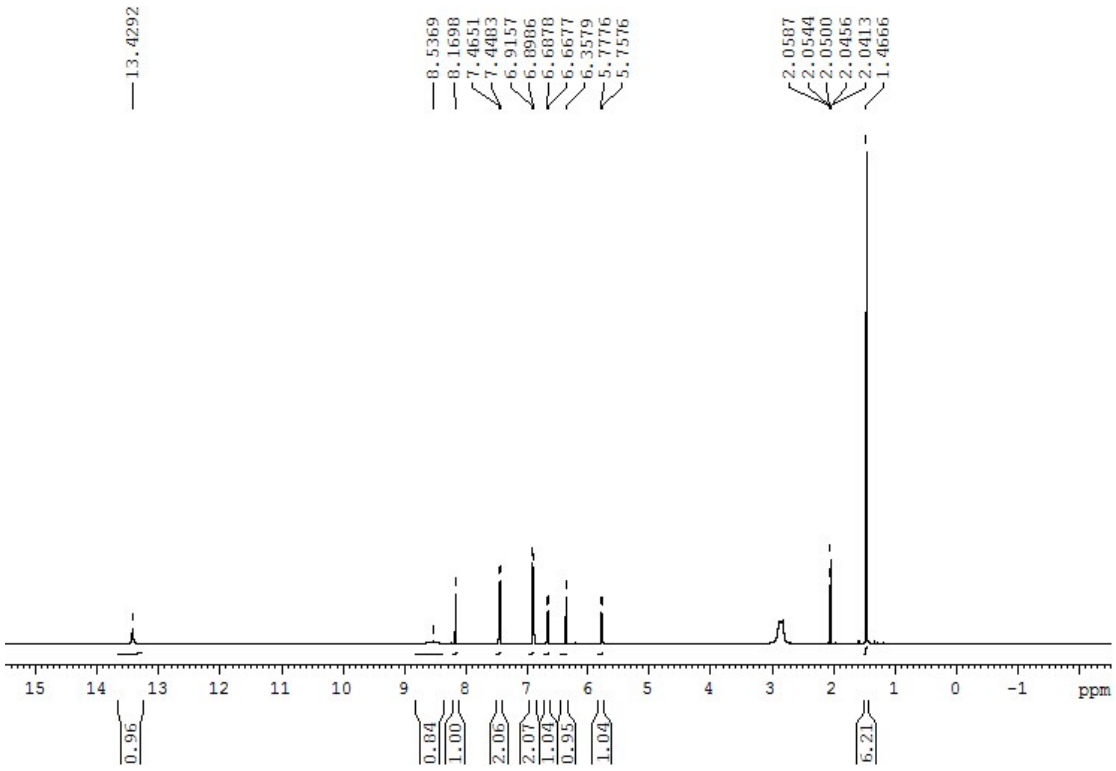

Figure S3. The ^{1}H NMR spectrum of alpinumisoflavone (AIF) in Acetone-d_6 (500 MHz, δ in ppm).

Table S1. IC_{50} of AIF.

	Survival ability IC_{50} (μg/mL)	NO inhibition IC_{50} (μg/mL)
AIF	64.37	4.87

Table S2. Survival ability and NO inhibition of AIF.

AIF (μg/mL)	LPS (100 ng/mL)	Survival ability (%)	NO inhibition (%)
0	-	102.00 ± 2.97	89.72 ± 1.09
0	+	100.00 ± 0.00	0.00 ± 0.00$^{###}$
1	+	99.53 ± 2.87	13.72 ± 1.89
5	+	99.31 ± 3.56	51.25 ± 9.50***
10	+	102.22 ± 1.80	72.74 ± 7.61***
20	+	98.17 ± 5.03	75.41 ± 3.17***
30	+	97.05 ± 8.08	79.01 ± 2.31***
40	+	93.84 ± 7.14	79.29 ± 1.85***
50	+	81.87 ± 3.36	80.66 ± 2.56***
60	+	69.93 ± 0.54	83.20 ± 2.75***
70	+	24.33 ± 1.31	83.48 ± 2.59***
80	+	9.72 ± 0.39	83.95 ± 2.00***
100	+	6.39 ± 0.67	86.55 ± 0.85***