

Supplemental Data

TABLE S1. In vitro antioxidant activities of different extracts from *Folium Microcos*.

Groups ($\mu\text{g}/\text{mg}$)	DPPH Radical Scavenging Activity (%)						$\text{O}_2^{\cdot-}$ Scavenging Activity (%)					
	10	20	40	80	100	120	10	20	40	80	100	120
Vc	65.55 \pm	76.82 \pm	80.97 \pm	80.60 \pm	80.76 \pm	80.11 \pm	52.69 \pm	79.05 \pm	82.06 \pm	82.81 \pm	81.68 \pm	81.49 \pm
	2.12	1.85	1.94	1.46	1.42	1.22	3.14	2.05	2.13	2.02	0.73	0.74
FMF	41.42 \pm	66.98 \pm	76.79 \pm	77.08 \pm	77.74 \pm	78.44 \pm	31.45 \pm	56.80 \pm	75.18 \pm	78.14 \pm	77.49 \pm	76.96 \pm
	2.33 ^{***}	2.24 ^{**}	2.29 ^{ns}	1.71 ^{ns}	1.25 ^{ns}	0.54 ^{ns}	1.39 ^{***}	2.70 ^{***}	2.40 [*]	1.12 [*]	2.09 [*]	1.79 [*]
FME	10.87 \pm	23.85 \pm	46.06 \pm	62.65 \pm	70.37 \pm	70.35 \pm	27.78 \pm	49.63 \pm	65.37 \pm	68.43 \pm	70.48 \pm	69.95 \pm
	2.46 ^{###}	2.40 ^{###}	3.09 ^{###}	2.97 ^{##}	0.94 ^{##}	1.21 ^{##}	3.07 ^{ns}	2.90 [#]	3.22 [#]	3.31 ^{###}	1.26 ^{###}	1.04 ^{##}
FMW	1.50 \pm	2.94 \pm	3.97 \pm	5.57 \pm	11.01 \pm	11.66 \pm	27.02 \pm	47.12 \pm	60.97 \pm	63.31 \pm	65.60 \pm	66.98 \pm
	0.27 ^{xxx}	0.29 ^{xxx}	0.83 ^{xxx}	1.61 ^{xxx}	0.80 ^{xxx}	0.57 ^{xxx}	3.86 ^{ns}	1.88 ^{xx}	2.63 ^{xx}	2.87 ^{xx}	2.90 ^{xx}	1.54 ^{xx}

Results are shown as mean \pm SD (n=3). ns, not significant, *** p < 0.001, ** p < 0.01, * p < 0.05 compared with Vc group; ### p < 0.001, ## p < 0.01, # p < 0.05 compared with FMF group; xxx p < 0.001, xx p < 0.01 compared with FMF group.

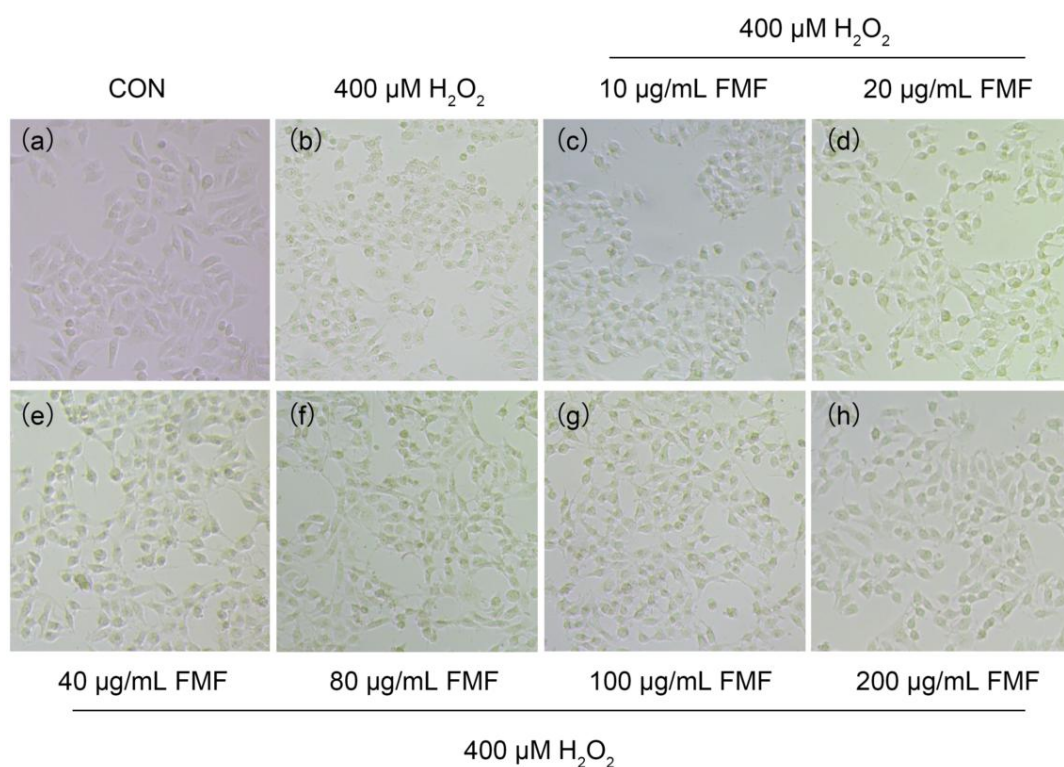


FIGURE S1: Effects of FMF on morphological changes induced by H_2O_2 in HepG2 cells.

Cells were treated with FMF (10, 20, 40, 80, 100, and 200 $\mu\text{g}/\text{mL}$) in the presence of 400 μM H_2O_2 for 4 h and observed by microscope. (a) Control cells. (b) Cells exposed to H_2O_2 . (c-h) Cells pretreated with different doses of FMF and then exposed to H_2O_2 .

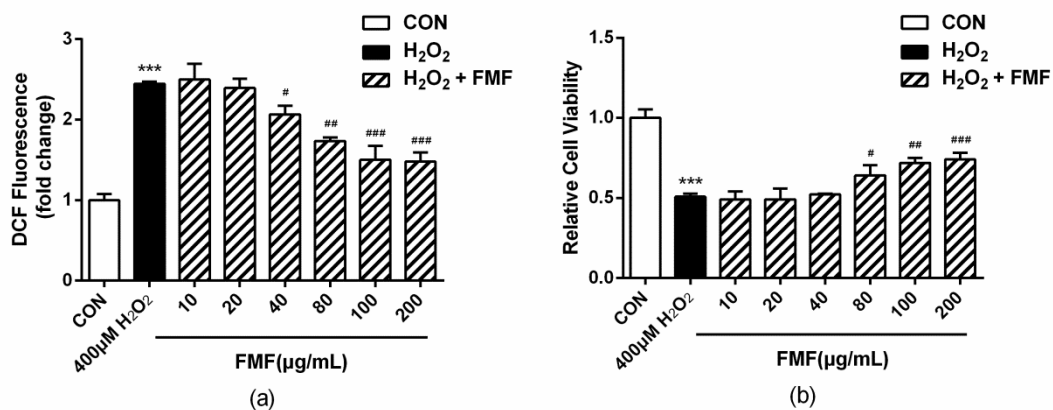


FIGURE S2: Effects of FMF on H₂O₂-mediated oxidative stress in Hepa1-6 cells. Cells were treated with FMF (10, 20, 40, 80, 100, and 200 µg/mL) in the presence of 400 µM H₂O₂ for 4 h. (a) ROS formation was measured using a fluorescence microplate reader. (b) Cellular mortality was evaluated by MTT assay. Results are shown as mean ± SD (n=3). *** P < 0.001 compared with the control group; ### p < 0.001, ## p < 0.01, # p < 0.05 compared with H₂O₂-intoxicated group.

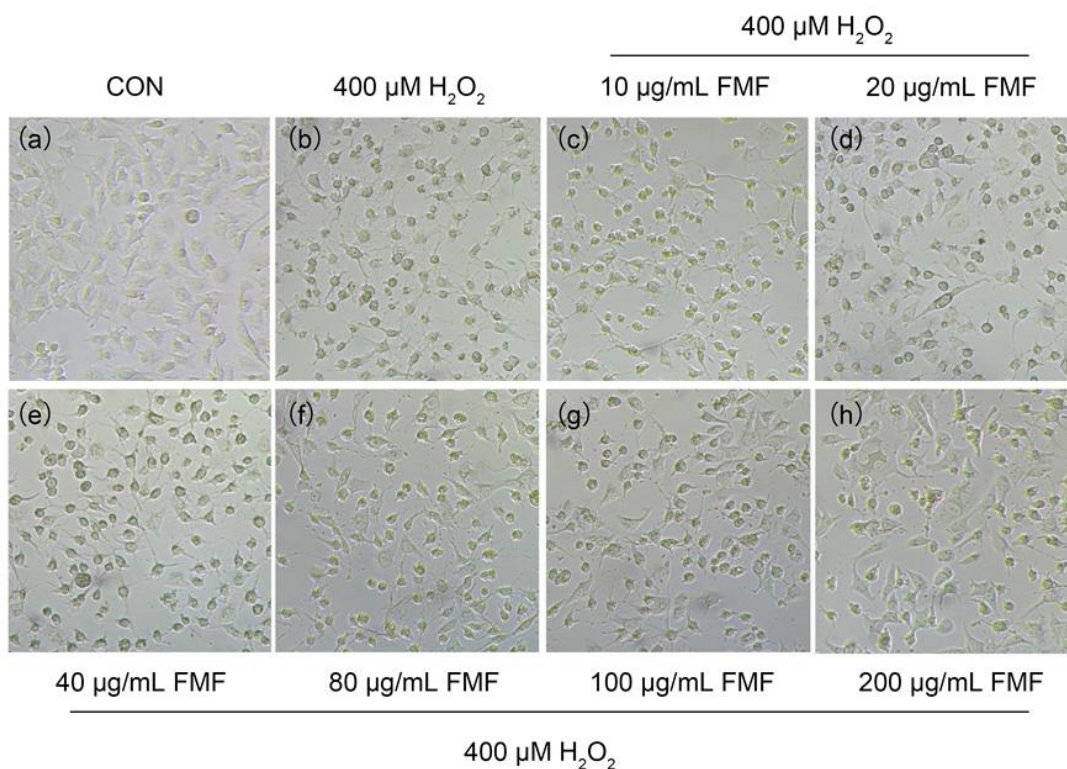


FIGURE S3: Effects of FMF on morphological changes induced by H₂O₂ in Hepa1-6 cells. Cells were treated with FMF (10, 20, 40, 80, 100, and 200 µg/mL) in the presence of 400 µM H₂O₂ for 4 h and observed by microscope. (a) Control cells. (b) Cells exposed to H₂O₂. (c-h) Cells

pretreated with different doses of FMF and then exposed to H₂O₂.

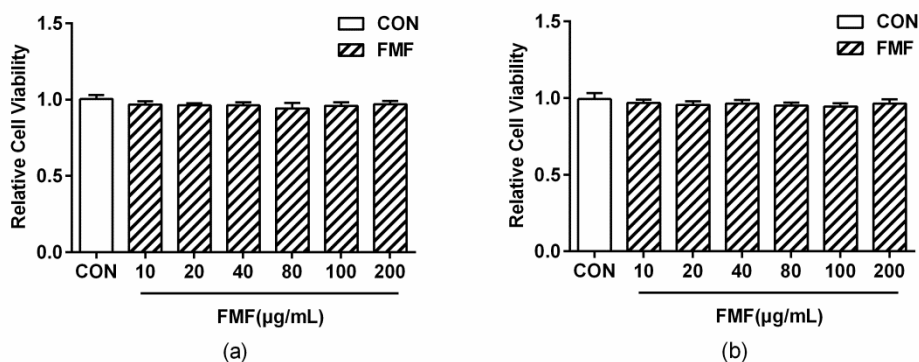


FIGURE S4: Cytotoxicity assay. (a) HepG2 and (b) Hepa1-6 cells were treated with FMF (10, 20, 40, 80, 100, and 200 µg/mL) for 24 h, and cellular mortality was evaluated by MTT assay.

Results are shown as mean ± SD (n=3).

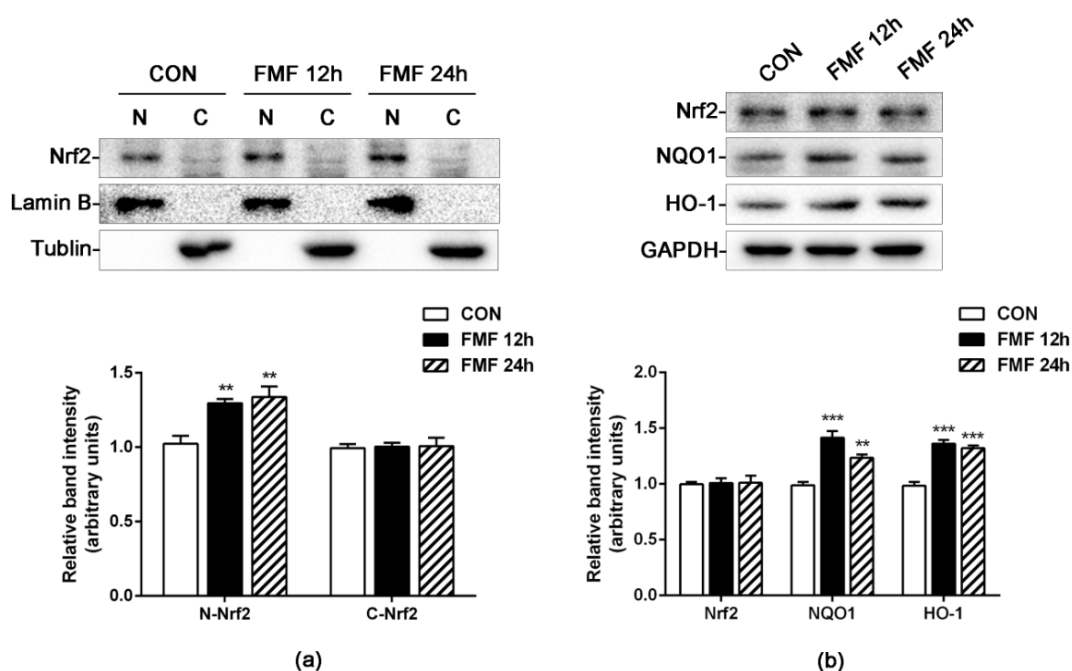


FIGURE S5: Effects of FMF on Nrf2 nuclear translocation and its target gene expression.

Hepa1-6 cells were treated with FMF (100 µg/mL) for 12 and 24 h. (a) Nuclear and cytoplasmic extracts of cells were prepared, and the protein level of Nrf2 was determined by western blot.

Lamin B and Tubulin were used as endogenous controls for nucleus and cytoplasm, respectively.

(b) Total cellular protein was extracted, and protein levels of Nrf2, NQO1 and HO-1 were

determined by western blot. GAPDH was used as an endogenous control. Relative intensity of the

immunoreactive bands was analyzed, and results are shown as mean \pm SD (n=3). *** p < 0.001, ** p < 0.01 compared with the control group.

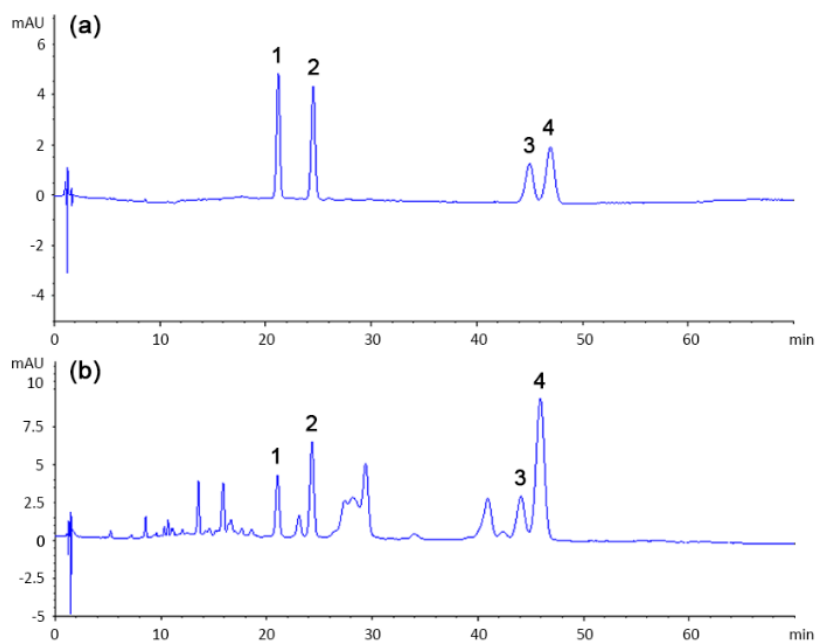


FIGURE S6: RP-HPLC profiles of (a) flavonoid standards and (b) flavonoid compounds in FMF at 360 nm. Peaks: 1, vitexin; 2, isovitexin; 3, isorhamnetin-3-O- β -D-glucoside; 4, narcissin.

TABLE S2: Calibration curves and contents of the polyphenolic compounds in FMF from *Folium Microcos*.

No	phenolic compound	content ($\mu\text{g}/\text{mg}$)	t_R (min)	equation of regression ($Y = aX + b$)	R^2
1	vitexin	10.37	21.27 ± 0.25	$Y = 1744.0X + 16.472$	0.9997
2	isovitexin	10.56	24.60 ± 0.21	$Y = 3302.9X - 17.259$	0.9995
3	isorhamnetin-3-O- β -D-glucoside	11.30	45.30 ± 0.26	$Y = 3038.2X + 39.04$	0.9994
4	narcissin	62.38	47.21 ± 0.32	$Y = 1963.9X + 7.5613$	0.9993