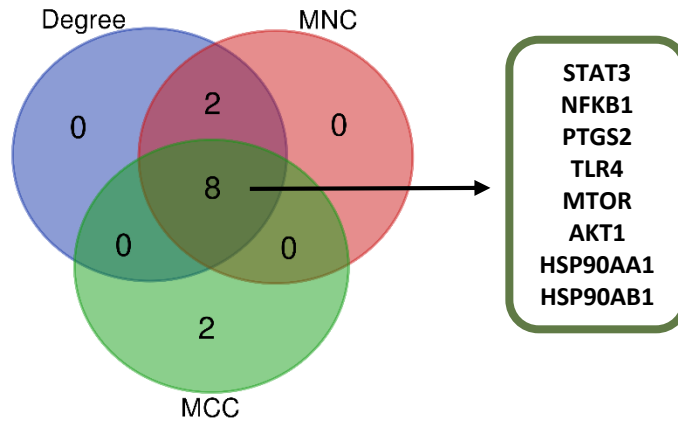
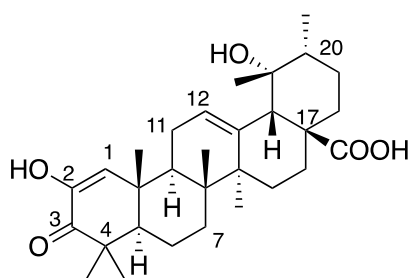


**Figure S1. Hub gene identification for fupenzic acid.** Venn diagram of the intersecting hub targets obtained using the three algorithms (degree, MCC and MCN).



**Figure S2: Spectroscopic data of fupenzic acid**



**<sup>1</sup>H-NMR ( $\delta$ ; 500 MHz; DMSO- $d_6$ ):** 6.18 (1H, s, H-1); 5.22 (1H, s, H-12); 2.50 (1H, m, H-16a); 2.39 (1H, s, H-18); 2.15 (1H, m, H-11a); 1.98 (1H, m, H-11b); 1.86 (1H, m, H-9); 1.69 (1H, m, H-15a); 1.60 (1H, m, H-22a); 1.59 (1H, m, H-21a); 1.53 (1H, m, H-5); 1.52 (1H, m, H-7a); 1.50 (1H, m, H-22b); 1.43 (1H, m, H-16b); 1.46 (1H, m, H-6a); 1.33 (1H, m, H-6b); 1.30 (3H, s, H-27); 1.30 (1H, m, H-7b); 1.25 (1H, m, H-20); 1.14 (1H, m, H-21b); 1.13 (3H, s, H-25); 1.11 (3H, s, H-29); 1.09 (3H, s, H-23); 1.02 (3H, s, H-24); 0.92 (1H, m, H-15b); 0.84 (3H, d,  $J$ = 6.7 Hz, H-30); 0.77 (3H, s, H-26).

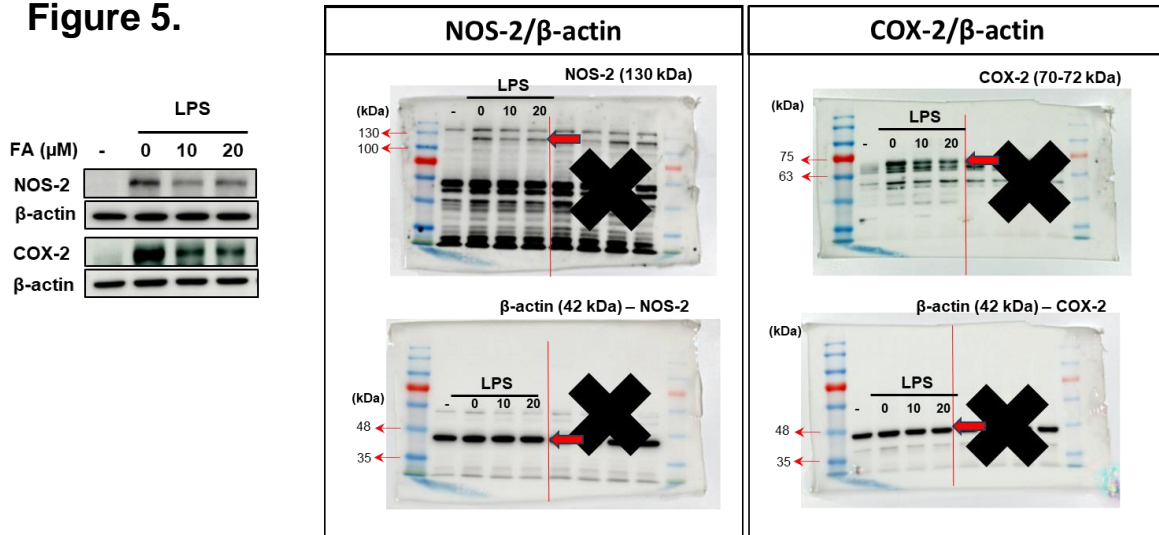
**<sup>13</sup>C- NMR ( $\delta$ ; 500 MHz; DMSO- $d_6$ ):** 200.6 (C-3); 179.5 (C-28); 145.1 (C-2); 139.4 (C-13); 129.4 (C-1); 127.2 (C-12); 72.3 (C-19); 53.8 (C-18); 53.5 (C-5); 47.4 (C-17); 44.5 (C-4); 42.7 (C-9); 41.9 (C-20); 41.8 (C-14); 40.5 (C-10); 38.2 (C-8); 37.6 (C-22); 32.8 (C-7); 28.5 (C-15); 28.1 (C-23); 26.8 (C-29); 26.4 (C-21); 25.6 (C-16); 24.5 (C-27); 23.5 (C-11); 22.1 (C-24); 20.2 (C-25); 19.0 (C-6); 17.4 (C-26); 16.8 (C-30).

**EIMS  $m/z$  (%):** 484 [M]<sup>+</sup> (36); 483 (100); 469 (13); 453 (9); 283 (10); 255 (15); 212 (22).

**HRESIMS  $m/z$ :** 483.3112 [M-H]<sup>-</sup> (calcd for C<sub>30</sub>H<sub>43</sub>O<sub>5</sub>, 483.3110).

**Figure S3.** Uncropped full-length pictures of Western blotting membrane.

**Figure 5.**



**Figure 7.**

