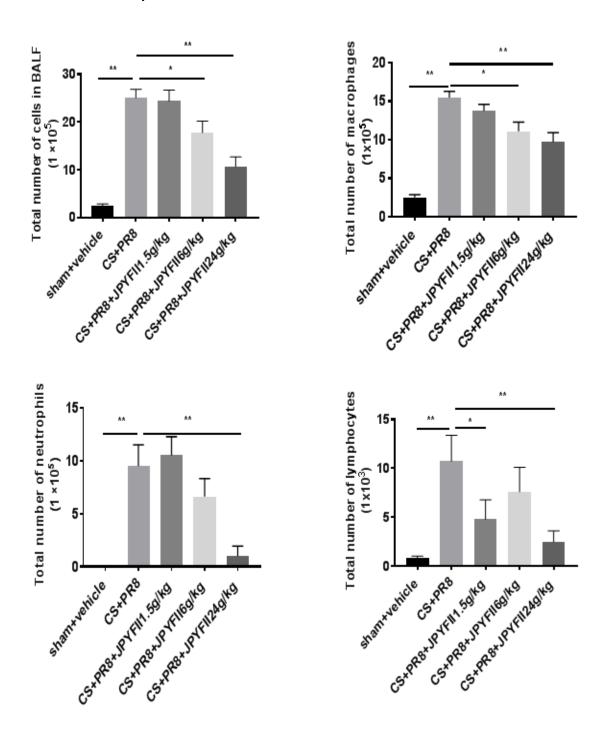
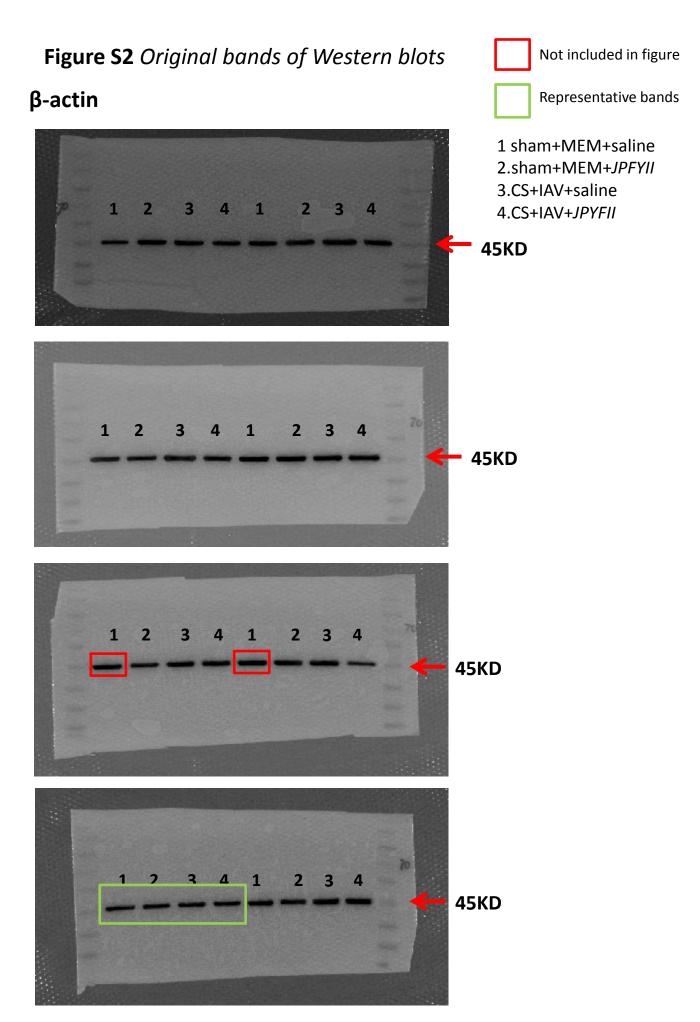
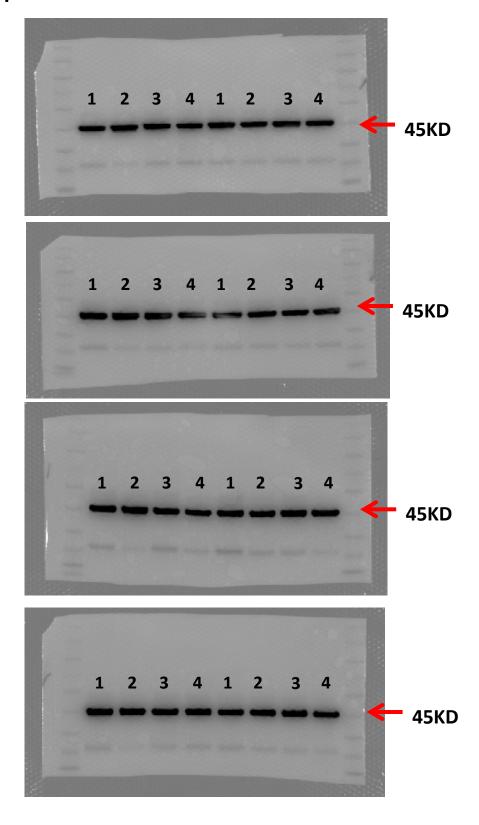
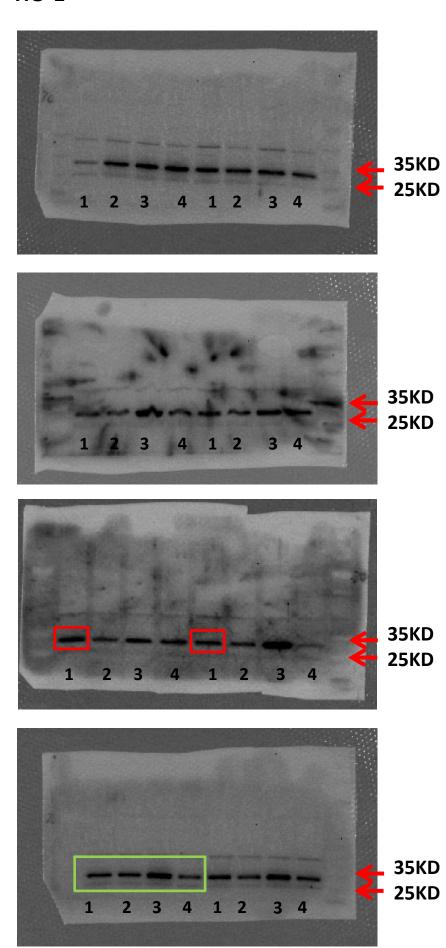
**Figure S1** *JPYFII* formulation reduced BALF cells of CS and IAV exposed mouse in dose-dependent manner.



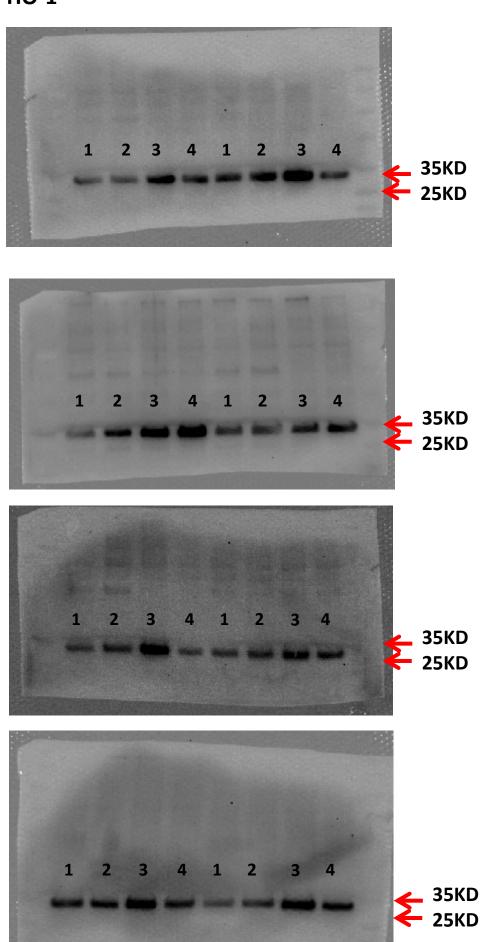


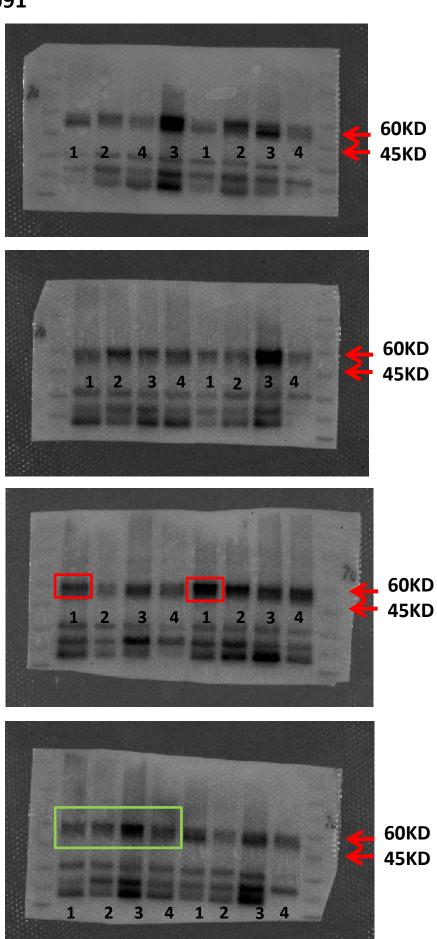
## β-actin

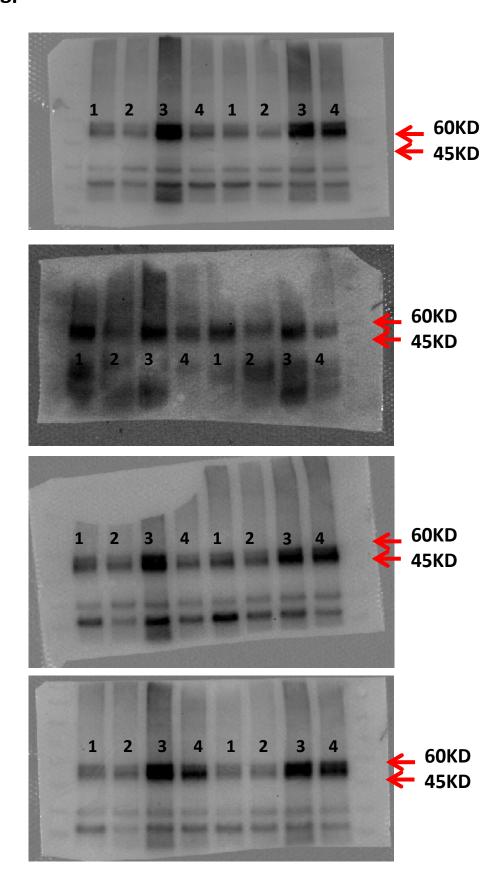




HO-1

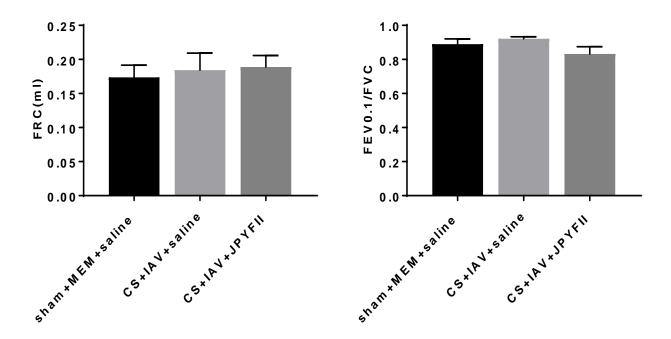






**Figure S3** Effects of *JPYFII* formulation on lung function in IAV-infected CS-exposed mice.

Lung function was assessed via the Buxco pulmonary function test. Forced vital capacity (FVC), forced expired volume over 0.1 s (FEV0.1), and functional residual capacity (FRC) in intubated BALB/c mice are shown. Data are expressed as mean  $\pm$  the standard error of the mean. n = 10-12 per group.



**Figure S4** Effects of *JPYFII* formulation on superoxide production in cells from BALF from the lungs of CS-exposed and IAV-infected mice.

Reactive oxygen species production from BALF cells was assessed  $ex\ vivo$  under PDB -stimulated conditions. Data are expressed as mean  $\pm$  the standard error of the mean. n=6-8 mice per group. Statistical significance was assessed using two-way analysis of variance with Tukey's test.\*\*p<0.01

