



**Fig. S8. The inhibition of DUOX2 combined with ACT administration decreased the generation, oxidation and downstream pathways of mtDNA. (A)** Immunofluorescence staining for **CK18 (594 nm), DUOX2 (488 nm) and DAPI (405 nm)**. Scale bar = 20  $\mu$ m. **(B)** Immunofluorescence staining for **ROS (488 nm) and DAPI (405 nm)**. Scale bar = 10  $\mu$ m. **(C and D)** Immunofluorescence staining for **TOM20 (594 nm), 8-OHdG (488 nm), IRF1 (488 nm) and DAPI (405 nm)**. Scale bar = 20  $\mu$ m. Statistical significance: \* $p < 0.05$ , \*\*\* $p < 0.001$ , compared with control group; ## $p < 0.01$ , ### $p < 0.001$ , compared with the model group (n = 3).