

Table S1. CV values of MDA, T-GSH content, SOD activity, Fe³⁺ and Fe²⁺ relative content in each treatment group.

CV	Control	ZEA 30	ZEA 30+ Fer-1		
			(0.5)	(1)	(1.5)
MDA	0.67	0.54	0.28	0.34	0.53
T-GSH	0.15	0.07	0.05	0.06	0.14
SOD	0.08	0.06	0.18	0.07	0.03
Relative content level of Fe ³⁺	0.10	0.08	0.07	0.07	0.15
Relative content level of Fe ²⁺	0.06	0.03	0.03	0.12	0.10

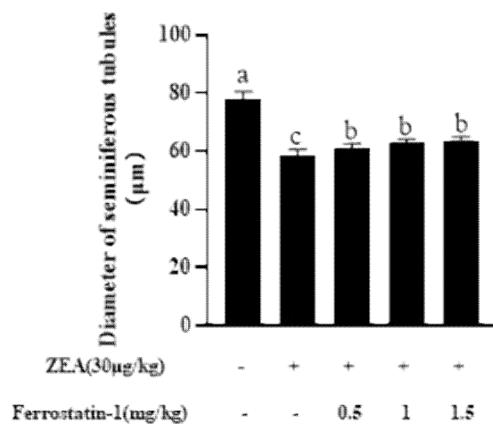
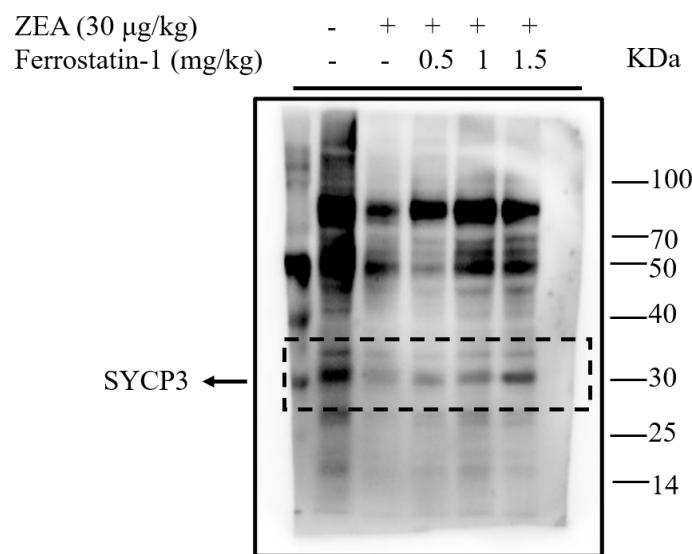
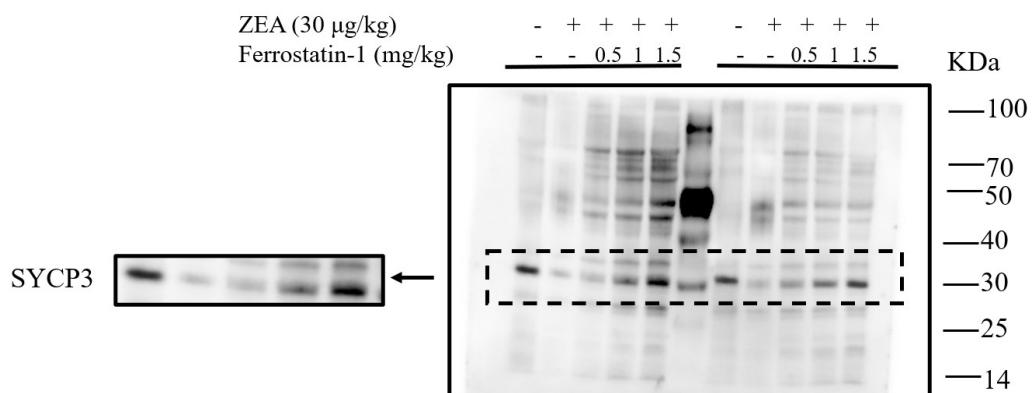
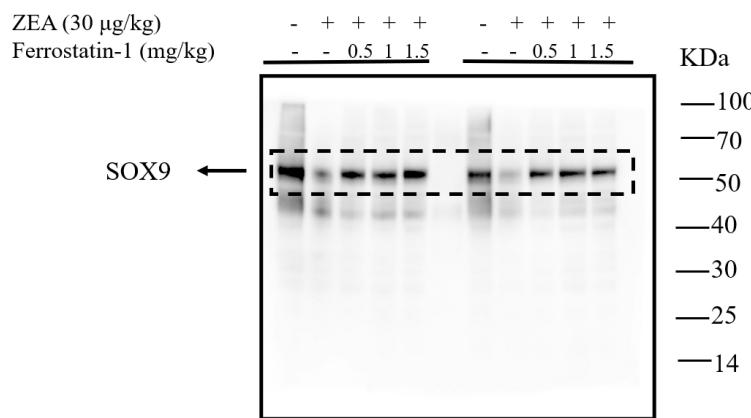
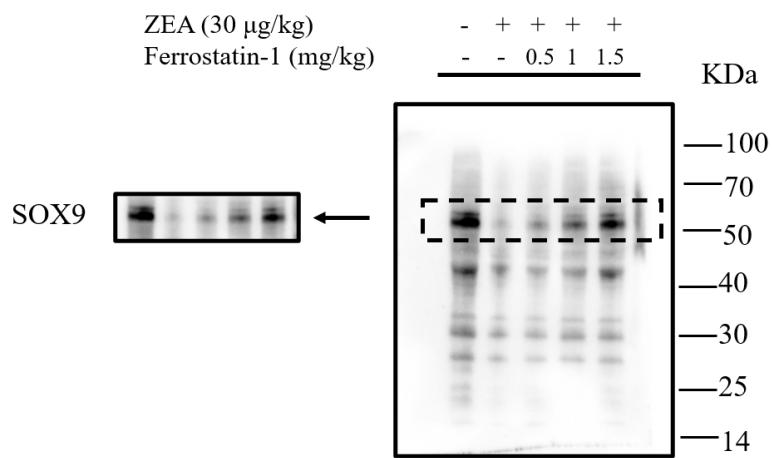


Figure S1. Change of diameter of seminiferous tubules in each treatment.



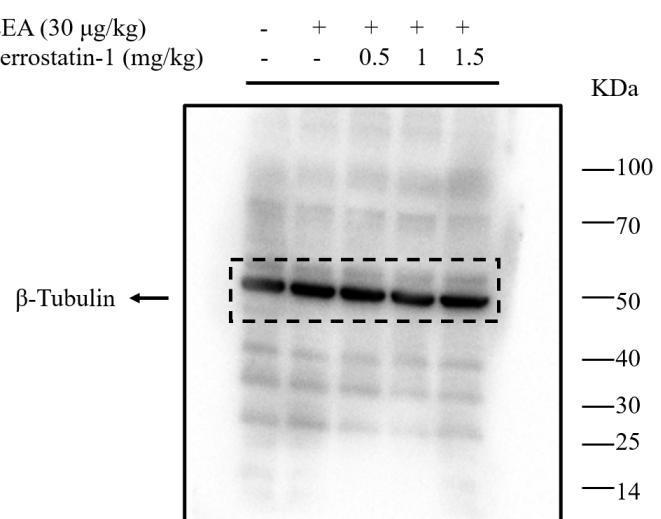
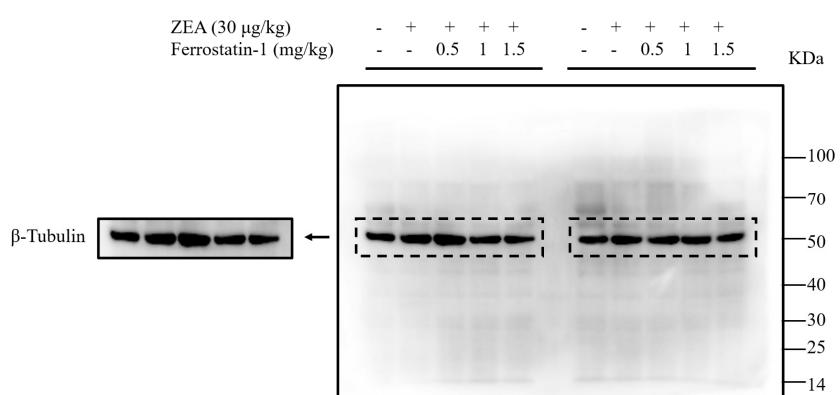
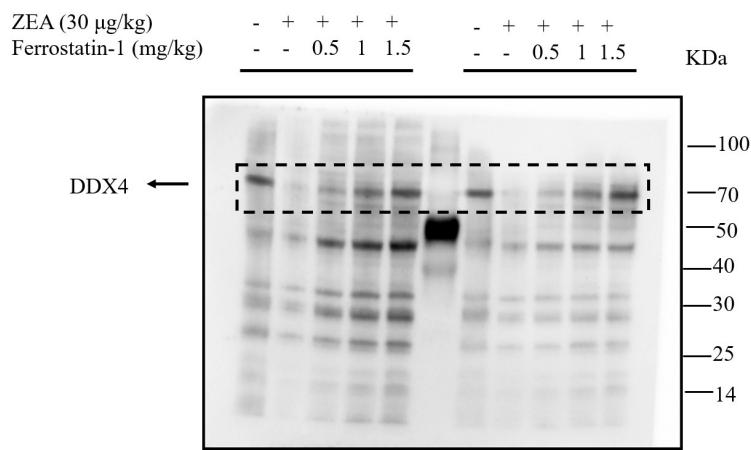
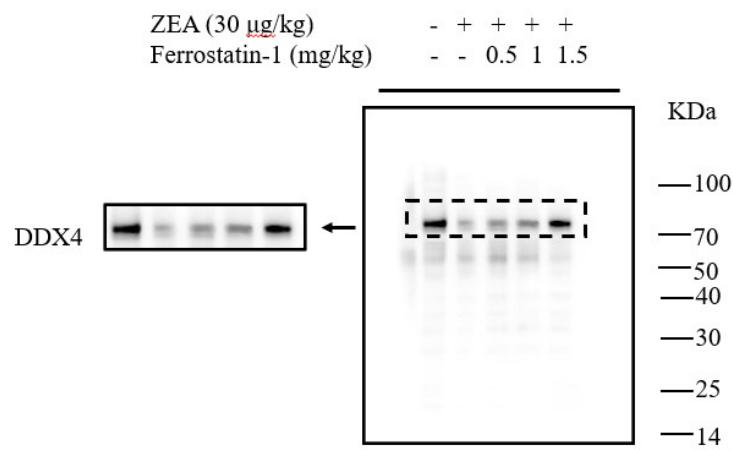
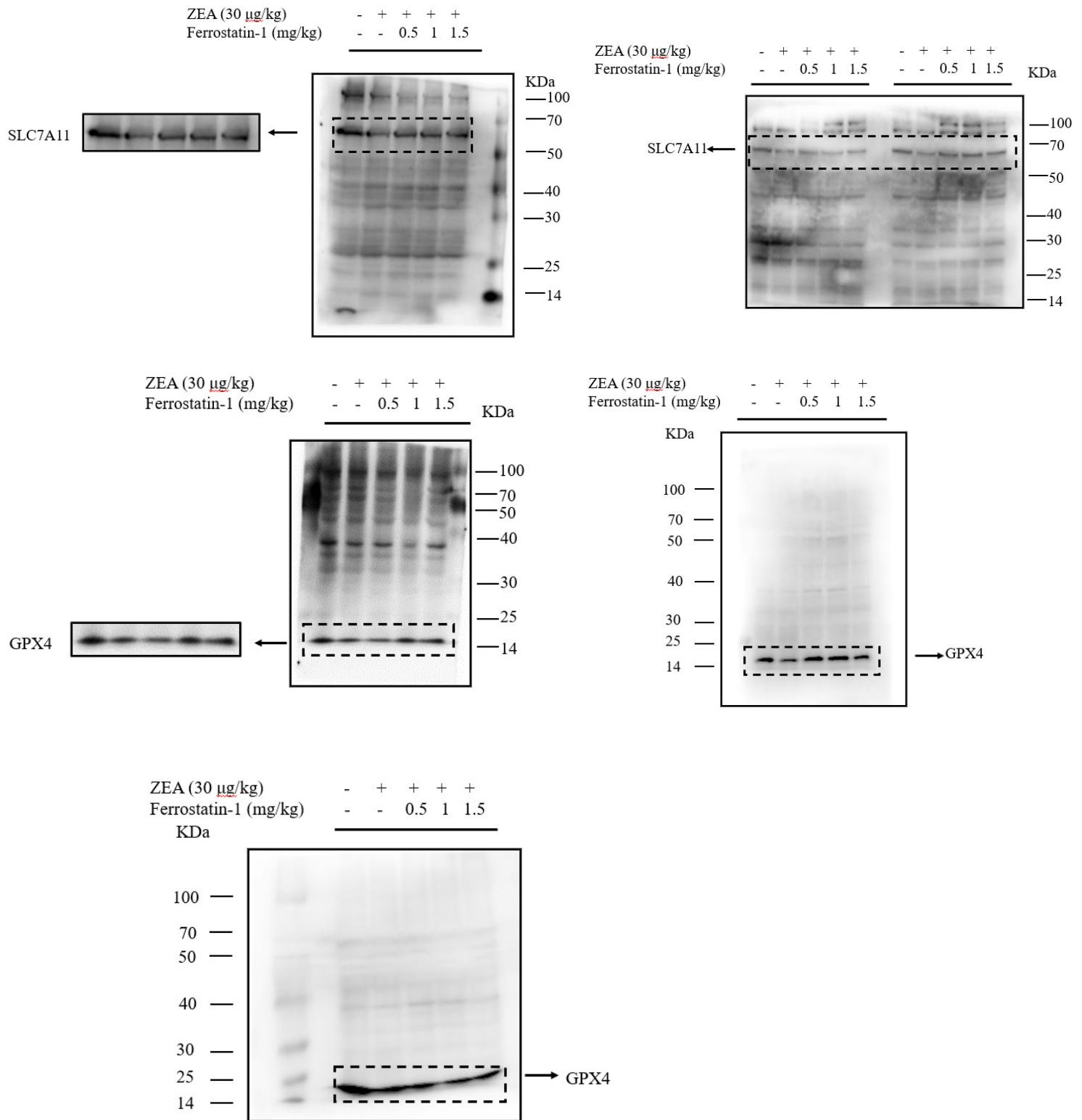


Figure S2. Expression changes of SOX9, SYCP3 and DDX4 proteins in testis of mice in each group.



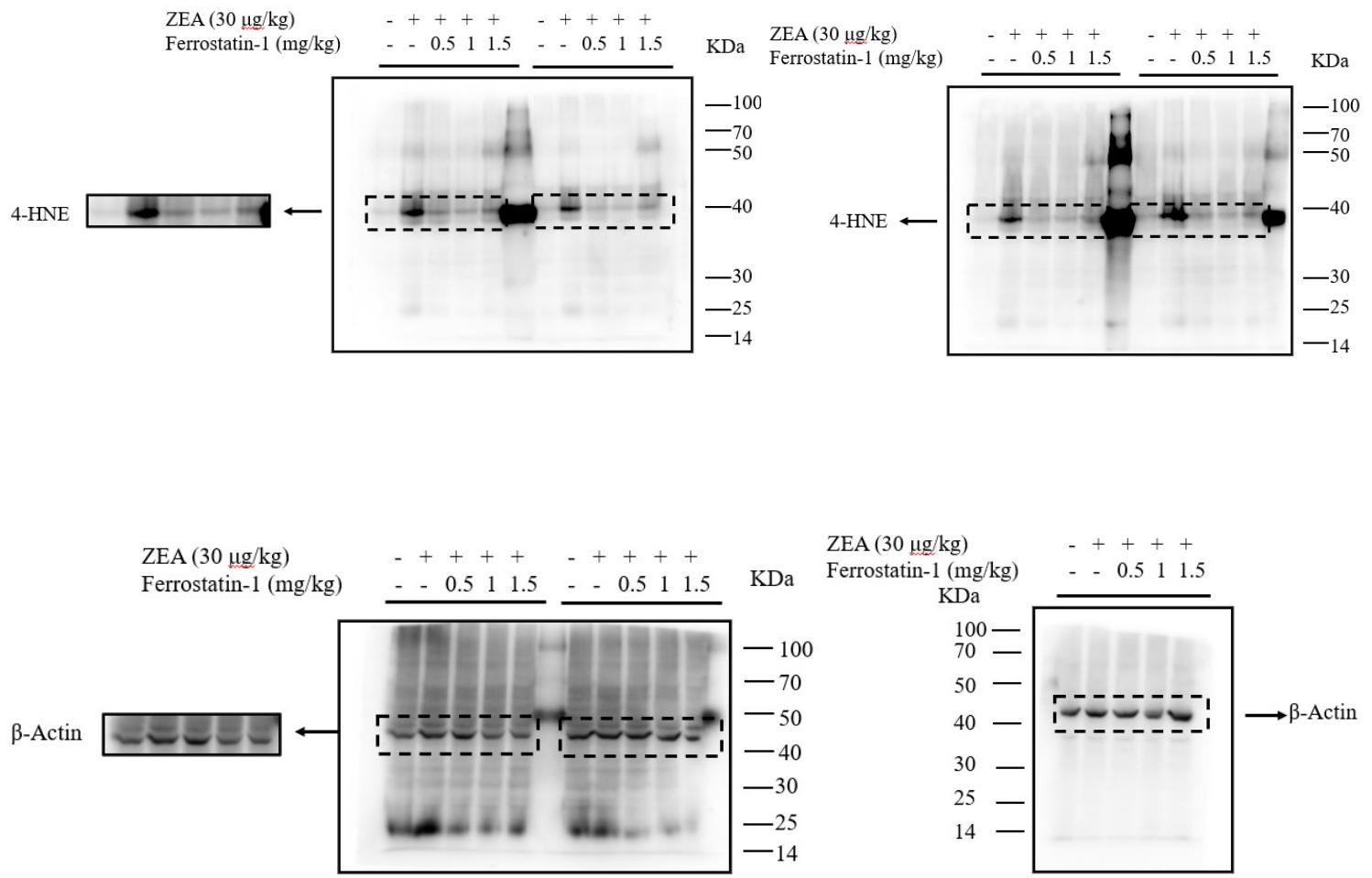


Figure S3. Expression changes of SLC7A11, GPX4 and 4-HNE proteins involved in ferroptosis in testis of mice in each group.