

Fig. S1 Western blot analysis of α -syn expression in MES23.5 cells after 25 nM rotenone treatment for 3 days.

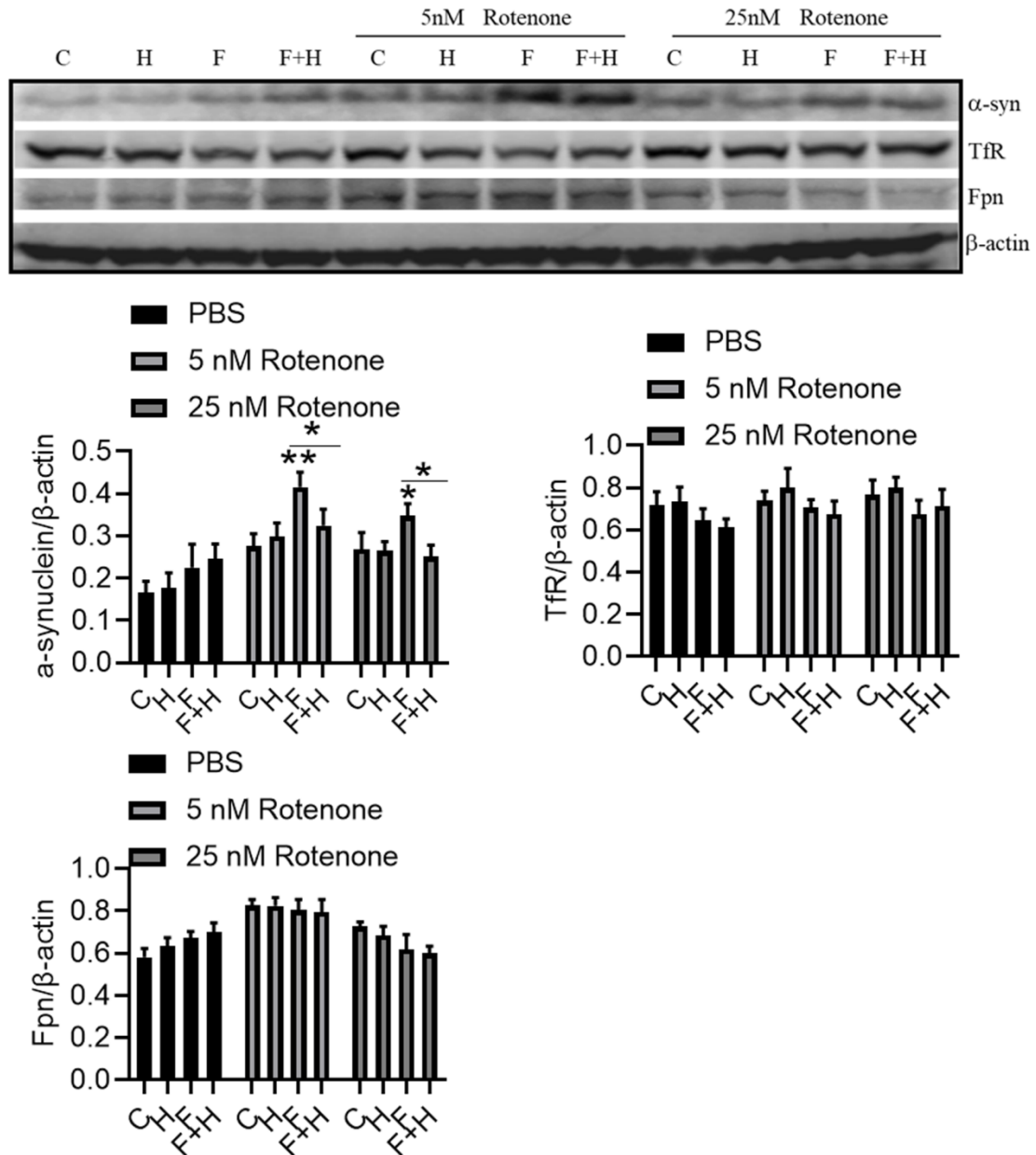


Fig. S2 α -syn expression was increased in both Ferric Ammonium Citrate (FAC) or rotenone treatment alone and treatment together. C: control; H: hepcidin; F: FAC, the concentration of FAC and hepcidin was the same with our study in the manuscript. The expression of α -syn was increased significantly both treated with FAC and 5 or 25 nM rotenone when compared to control. There was no changes of α -syn expression after treating with hepcidin alone both under physiological and 5 or 25 nM rotenone treatment. The expression of Fpn was not changed significantly among different groups. * $p < 0.05$, ** $p < 0.05$ compared to the control; * $p < 0.05$ compared to the indicated group.

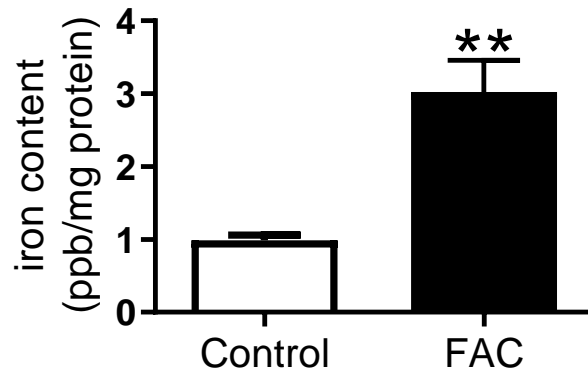


Fig. S3 The iron content was increased significantly after treating with FAC when compared with control in SH-SY5Y cells.

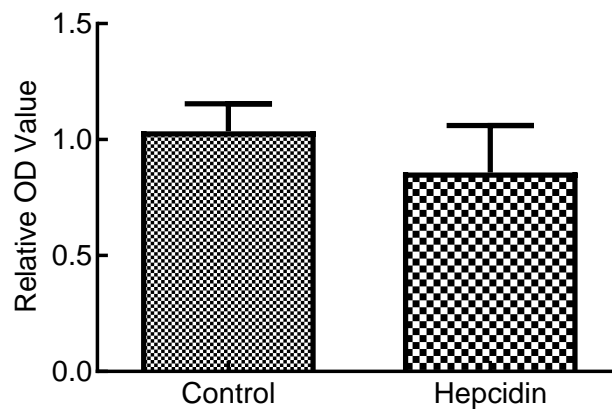


Fig. S4 Cell viability after treating with 100 nM hepcidin for 3 days by MTT method in SH-SY5Y cells (n=4 independent experiments).