The ferroptosis inducer erastin irreversibly inhibits system x_c^- and synergizes with cisplatin to increase cisplatin's cytotoxicity in cancer cells

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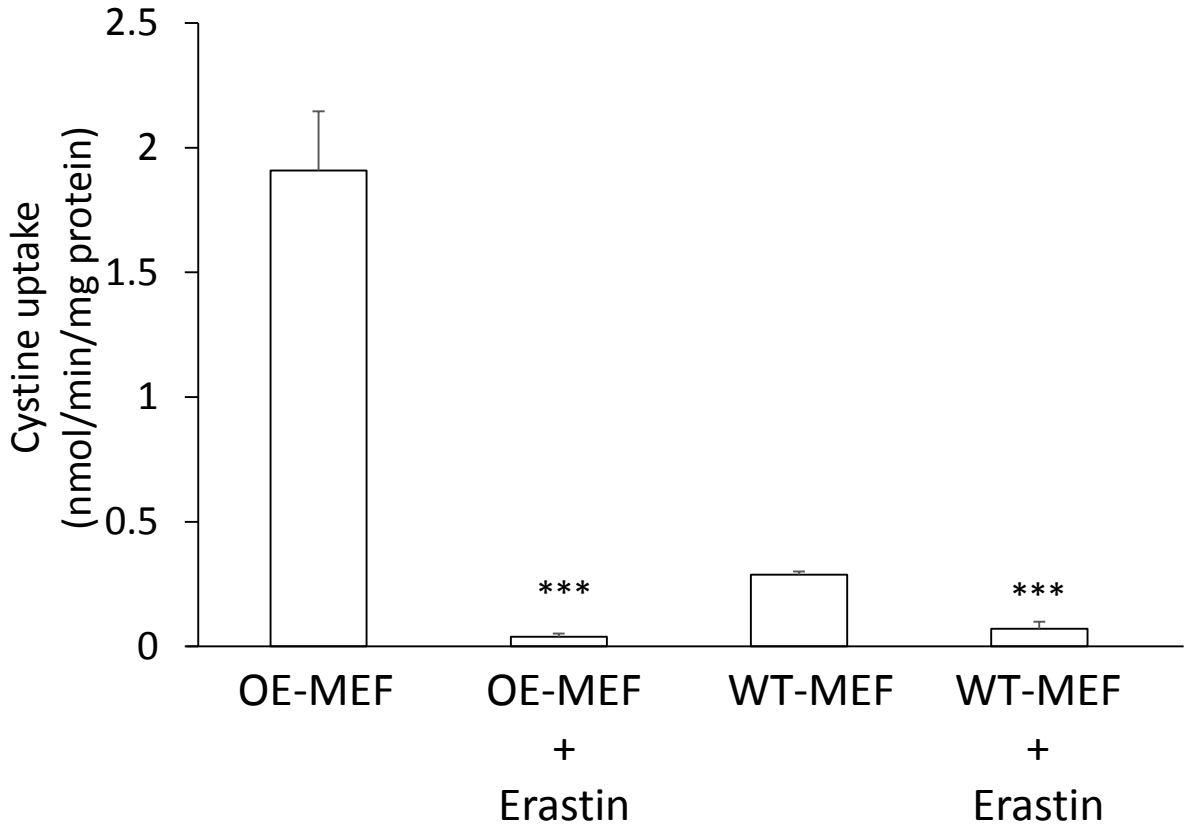
Supplementary Information

Supplementary Fig. S1. Effect of erastin on the activity of cystine uptake in xCT-over-expressing and wild-type MEF. xCT-overexpressing (OE) and wild-type (WT) MEF were cultured for 24 h and subsequently incubated in the absence or presence of 100 μM erastin for 5 min. After the incubation with erastin, the uptake of 0.05 mM L-[^{14}C]cystine was measured in the absence of erastin. The percent inhibition of the uptake of cystine in OE-MEF and WT-MEF treated with erastin was 97.9% and 75.2%, respectively. Data represent the mean of the activity of cystine uptake ± S.D. in OE-MEF and the mean of the activity of cystine uptake in WT-MEF. Each point represents the mean ± S.D. (n=4). P values were obtained by unpaired Student's t test. $^{***}P=5 \times 10^{-4}$ (OE-MEF vs OE-MEF + Erastin), 2×10^{-4} (WT-MEF vs WT-MEF + Erastin).



Supplementary Fig. S1