**Figure legends**

**Figure S1**

(A) Chemical structure of ZY0511.

(B) The mRNA (up) and protein (down) levels of LSD1 in a panel of human CRC cell lines.

**Figure S2**

(A) The modal display of mitochondria membrane potential after treated with the indicated reagent

(B) The quantification data of wound-healing assay in CRC cells treated with 5-FU and ZY0511, *P < 0.05, **P < 0.01, ***P < 0.001.

(C) the quantification data of migrated CRC cells after treated with 5-FU and ZY0511, **P < 0.01, ***P < 0.001.