

1 **Supplementary Figure Captions**

2 **Figure.S1.** Protein/peptide statistics. (A) Protein polypeptide identification number
3 distribution; (B) Protein sequence coverage distribution; (C) Polypeptide length
4 distribution; (D) Polypeptide charge number distribution.

5 **Figure.S2.** Effect of synthetic peptides on cell activity.

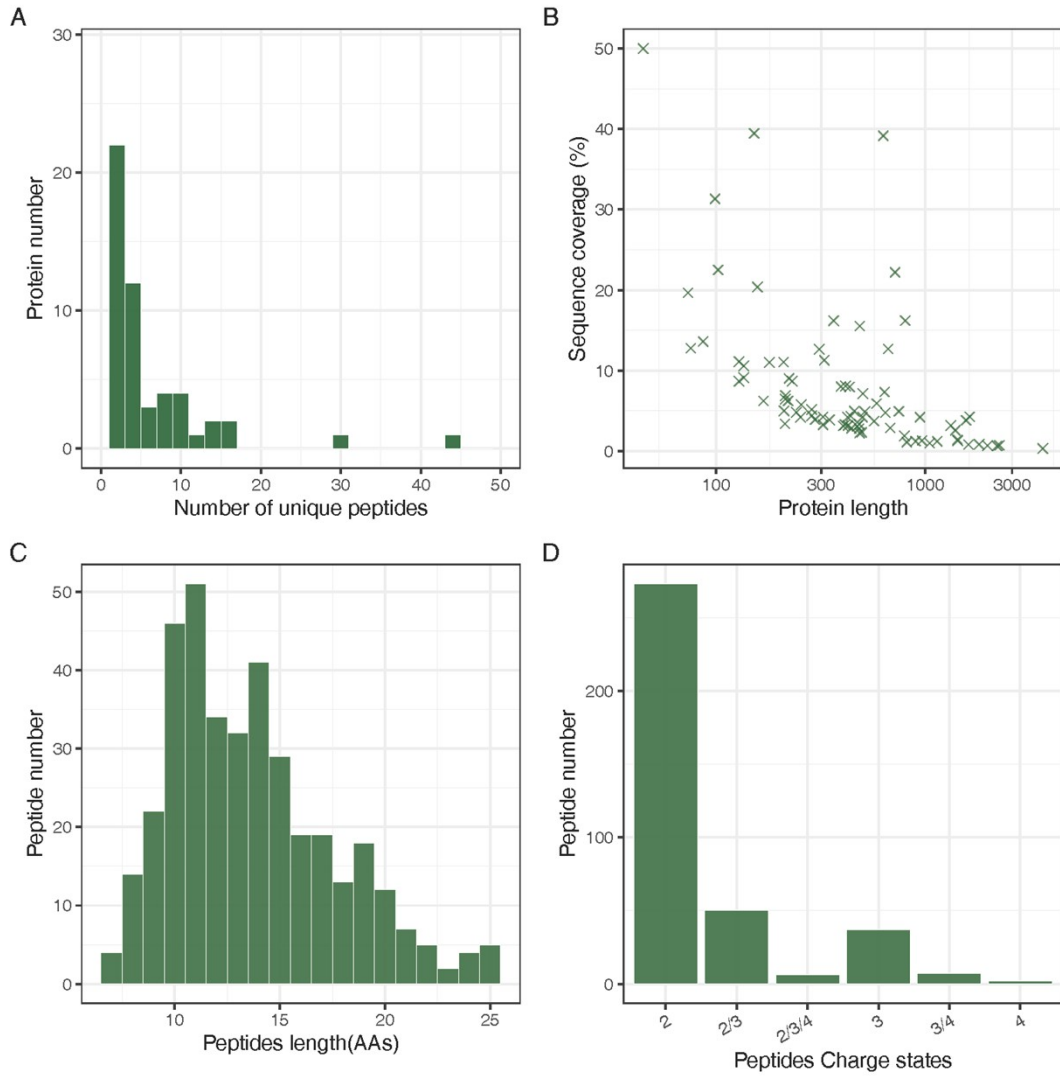
6 **Figure.S3.** Effects of H₂O₂ at different time and concentration on AML12 cells.

7 **Figure.S4.** Effects of H₂O₂ on SOD, CAT and MDA, apoptosis, reactive oxygen
8 species and DNA damage in AML12 cells. (A) The contents of SOD, CAT, MDA and
9 ROS level in cells; (B) Apoptosis rate of cells; (C) Cell DNA damage.

10

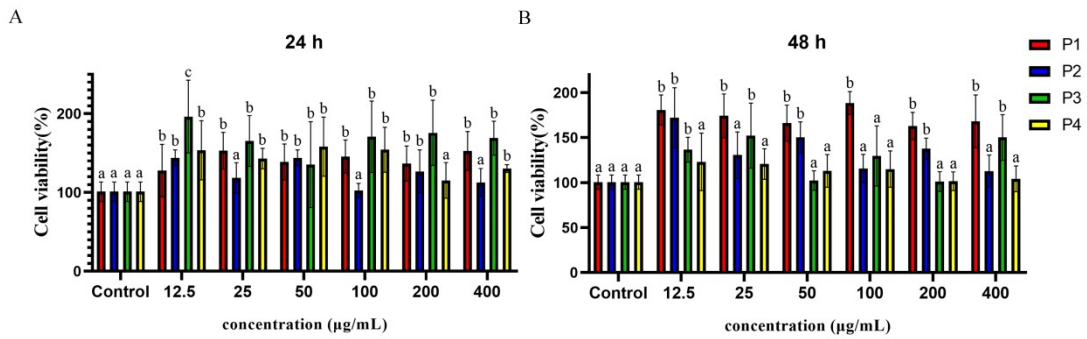
11 **Supplementary Figure**

12 **Fig.S1**



13

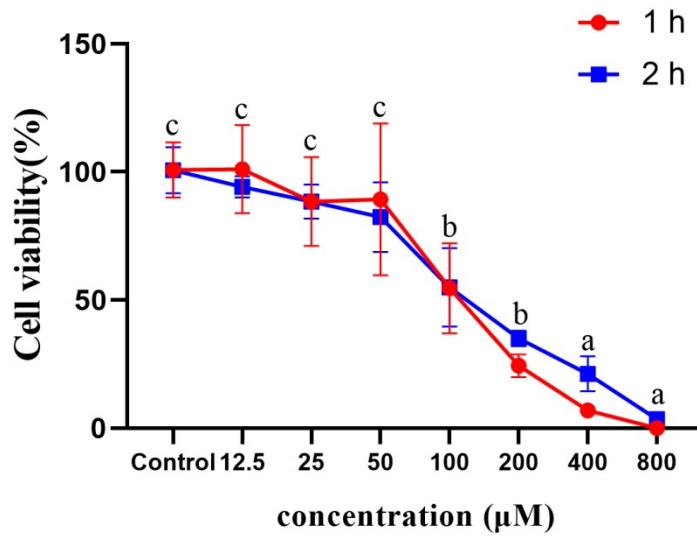
14 **Fig.S2**



15

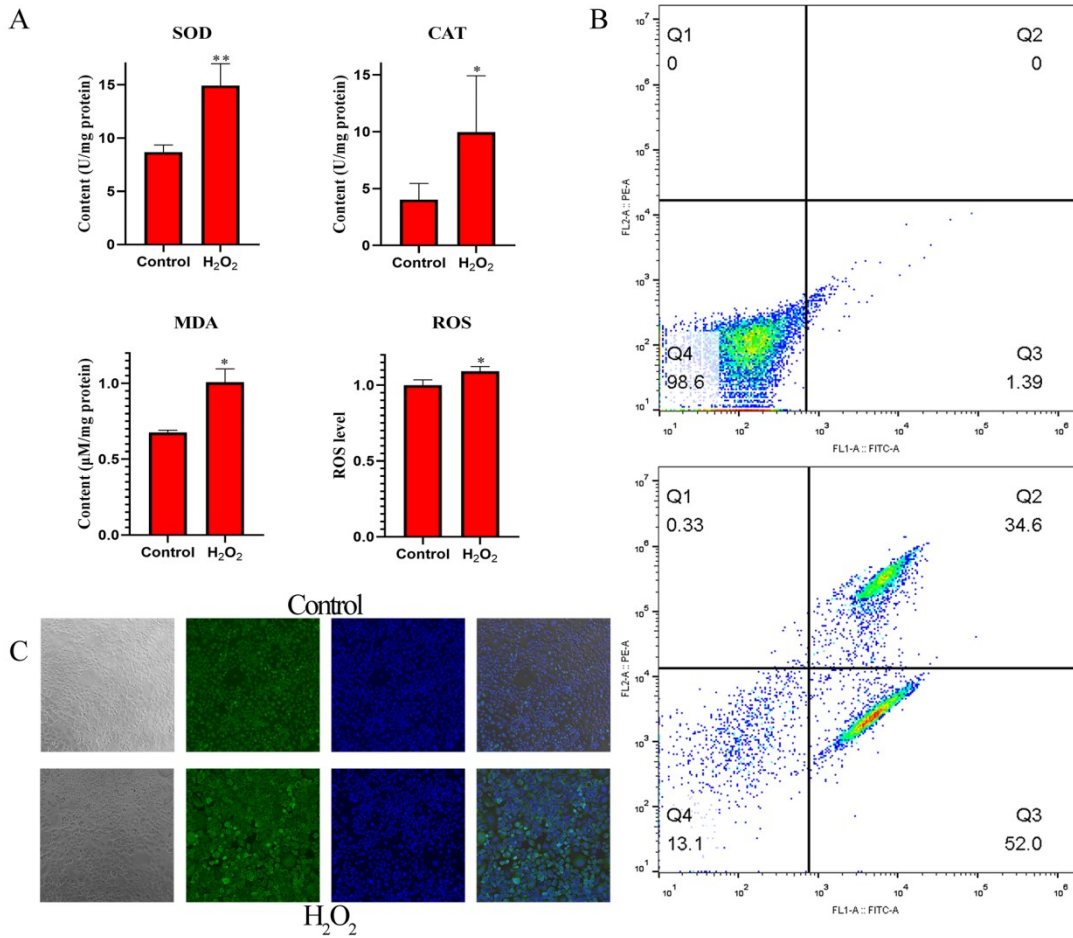
16

17 Fig.S3



18

19 Fig.S4



20

21