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# A colorimetric strategy for assay of protease activity based on gold nanoparticle growth controlled by ascorbic acid and Cu(II)-coordinated peptide

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## Highlights

- A visual method for protease detection based on the growth of AuNPs was reported.
- Cu<sup>2+</sup> catalyzes the oxidation of ascorbic acid (AA) to prevent the growth of AuNPs.
- Cleavage of a substrate peptide leads to the exposure of a ATCUN-containing peptide.

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