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Compounds containing trace element copper or zinc exhibit as potent hyperuricemia inhibitors via xanthine oxidase inactivation †

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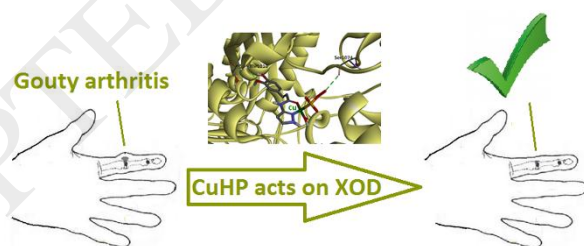
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† Electronic Supplementary Information (ESI) available: Characterization spectra and standard curves of uric acid and xanthine.

Graphical abstract

Tight coupling of metal compound and xanthine oxidase (XOD) to inhibit XOD activity and reduce uric acid generation



Highlights:

- A kind of original metal compound based on ferulic acid and trace elements copper & zinc was designed and synthesized.
- The effect of the compounds in mice to reduce uric acid values was confirmed

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