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Title: Biocompatible Fe³⁺-TA Coordination Complex with High Photothermal Conversion Efficiency for Ablation of Cancer Cells

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Biocompatible Fe³⁺-TA Coordination Complex with High Photothermal Conversion Efficiency for Ablation of Cancer Cells

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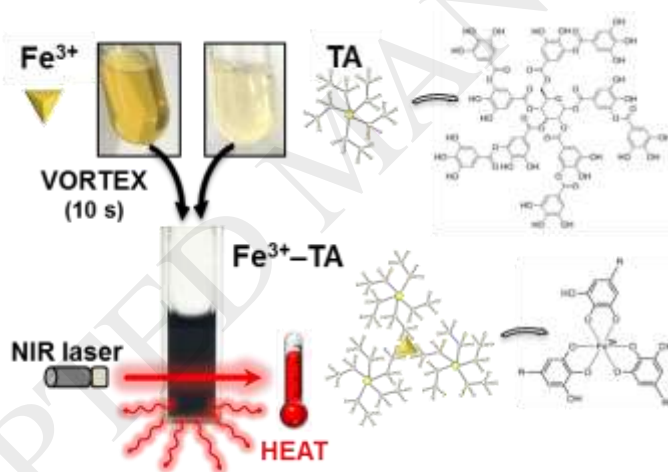
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(C.Y. Xu)



Graphical abstract: Schematic of the synthetic route of Fe³⁺-TA (Tannic Acid) complex with significant photothermal effect upon near-infrared (NIR) laser irradiation.

Highlights

- Fe³⁺-TA complex was synthesized rapidly by a one-step method with natural reagents.
- Fe³⁺-TA complex exhibited a photothermal conversion efficiency as high as 77.3%.
- Fe³⁺-TA complex showed excellent photothermal stability and ultralow cytotoxicity.
- The photothermal ablation efficacy of Fe³⁺-TA is adequate to photothermal therapy.

ABSTRACT

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