

## Electronic Supplementary Material

### **A nano-catalyst promoting endogenous NO production enhance chemotherapy efficacy by vascular normalization**

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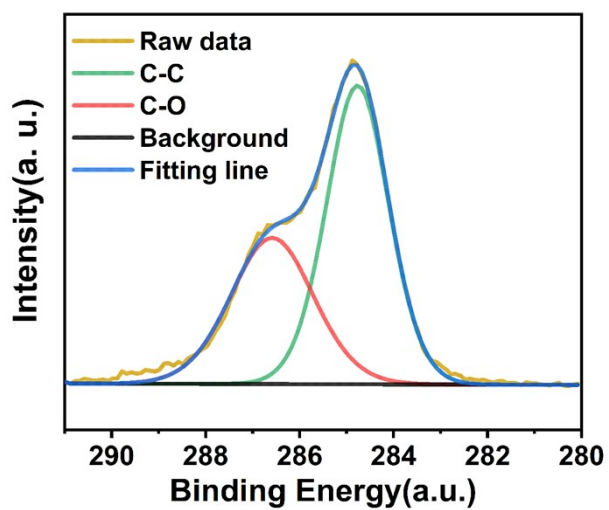
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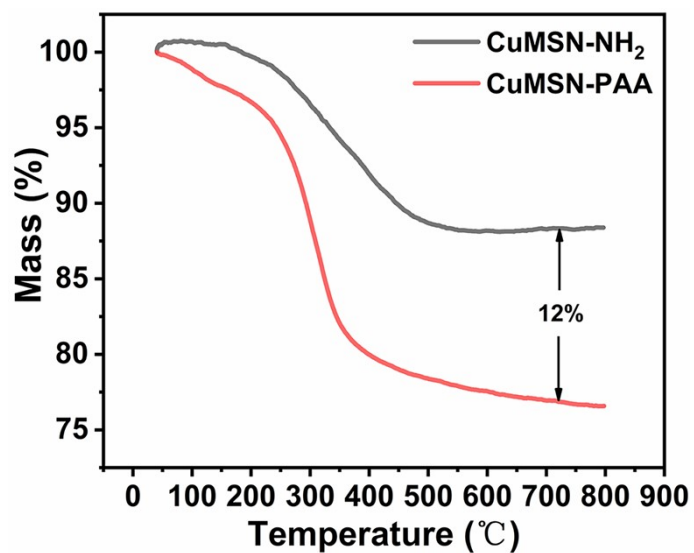
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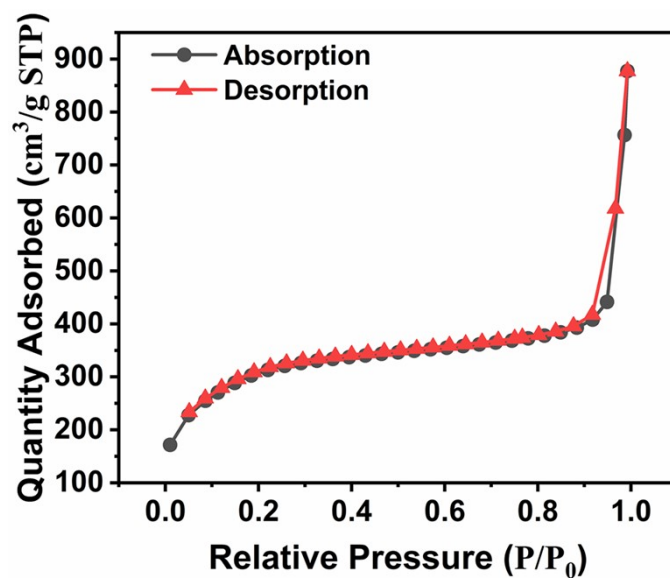
## Supporting Figures



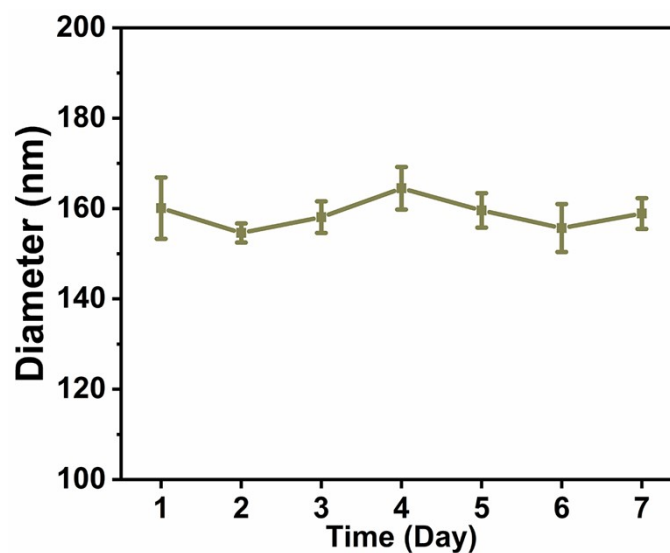
**Fig. S1** C 1s analysis of CuMSN.



**Fig. S2** TGA curve of CuMSN-NH<sub>2</sub> and CuMSN-PAA.



**Fig. S3**  $\text{N}_2$  adsorption-desorption isotherm of CuMSN.



**Fig. S4** Hydrodynamic diameter of CuMSN-PAA in PBS with 10% FBS during a week period.

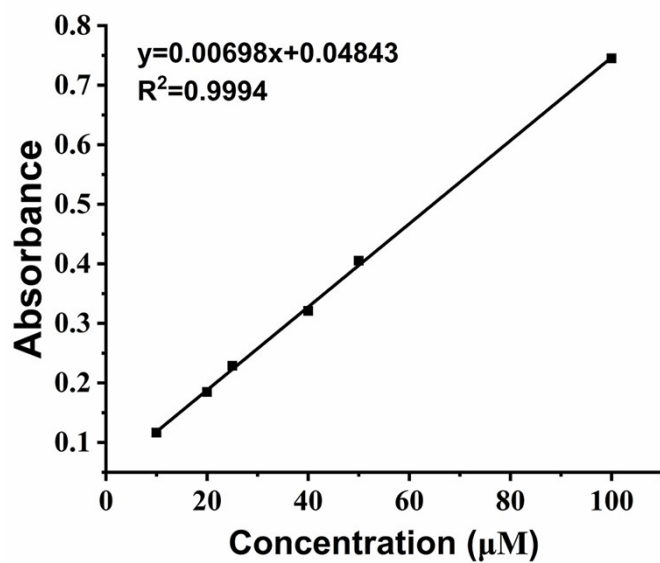


Fig. S5 The standard curve of NaNO<sub>2</sub>-NO.

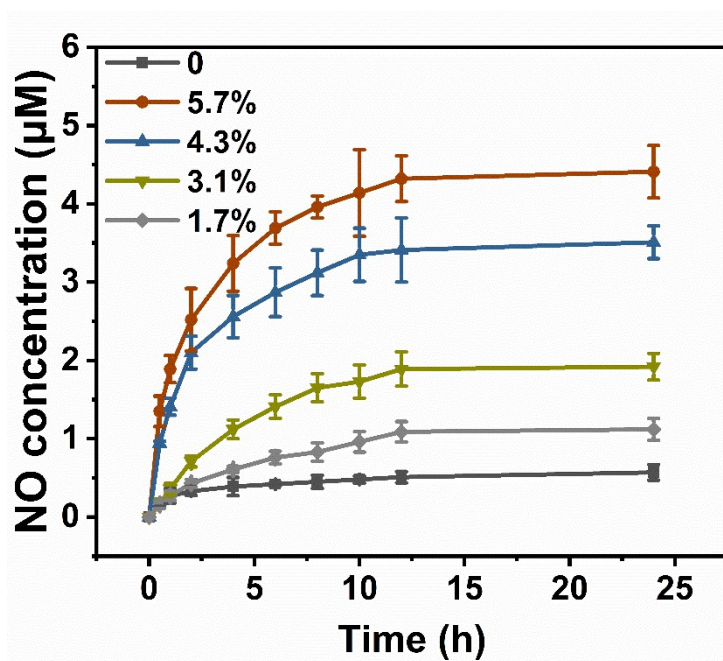


Fig. S6 NO generated by adding CuMSN-PAA in PBS containing 10 µM GSNO at different Cu content.

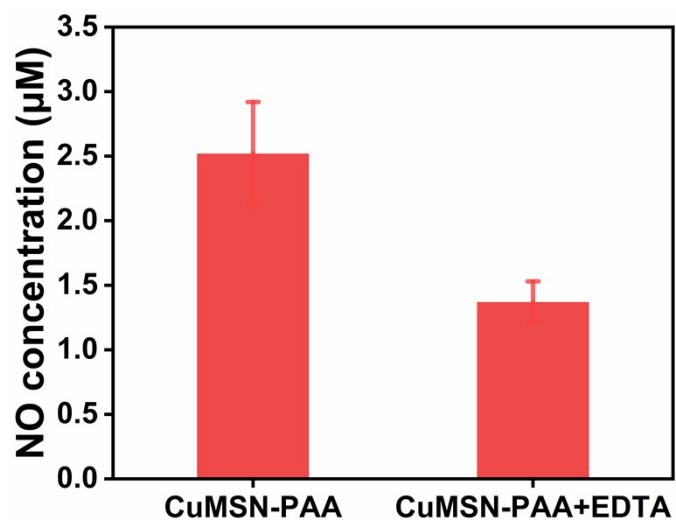


Fig. S7 NO generated from CuMSN-PAA in the presence or absence of EDTA.

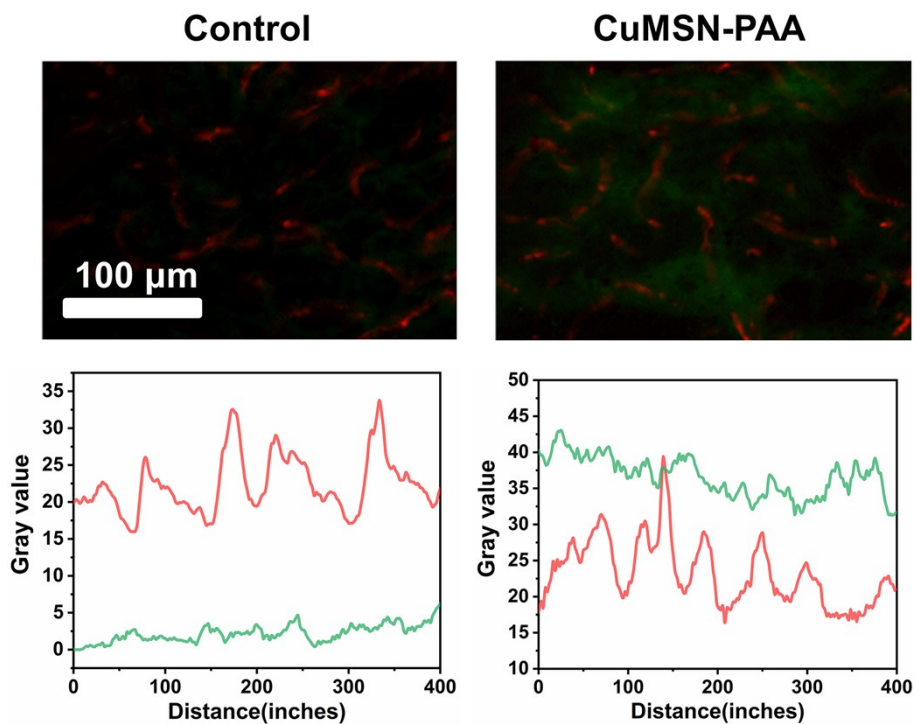
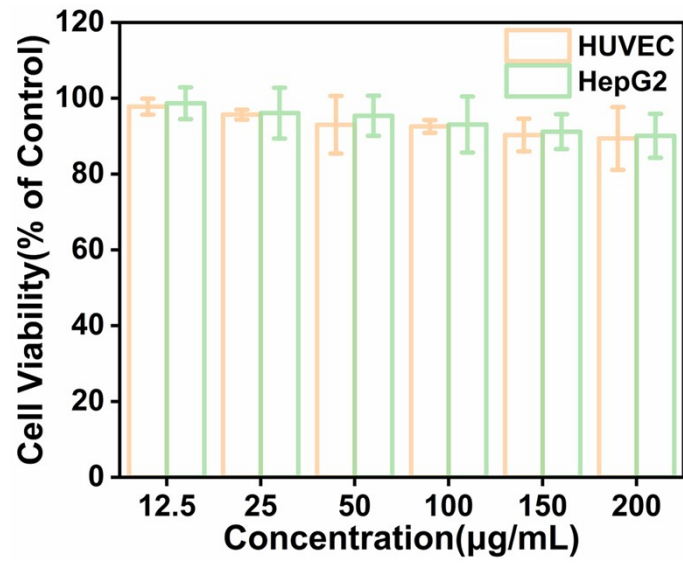


Fig. S8 Representative images showing NO in tumors detected using DAF-FM DA fluorescent probe and corresponding gray value of each image.



**Fig. S9** Relative viabilities of HepG2 and HUVEC cells after being treated with varied concentrations of CuMSN-PAA (n = 3).