

Supplementary Information

Carbon dots doped lanthanide coordination polymer nanocomposite as ratiometric fluorescent probe for the sensitive detection of alkaline phosphatase activity

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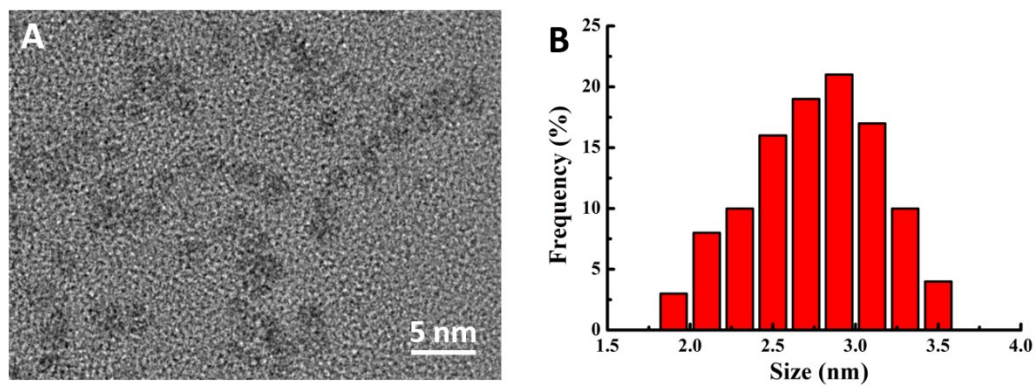


Fig. S1. (A) TEM image of CDs. (B) The particle size distribution histograms of CDs.

Table S1. Comparison of various fluorescence methods for the detection of ALP.

Probe	Signal	Linear range (U/L)	Detection limit (U/L)	Ref.
Carbon quantum dots	Turn-on	4.6-383.3	1.4	1
Carbon dots/MnO ₂ nanosheets	Turn-on	1-100	0.4	2
PEI-capped Cu nanoclusters/MnO ₂ nanosheets	Turn-on	1-50	0.27	3
Polydopamine nanoparticles/ MnO ₂ nanosheets	Turn-on	1-80	0.34	4
dsDNA-templated copper nanoparticles	Turn-on	0.3-7.5	0.3	5
Copper-mediated DNA-scaffolded silver nanocluster	Turn-off	3-240	5	6
N-methyl mesoporphyrin IX/G quadruplex	Turn-off	1-50	0.75	7
4-Methyl coumarin encapsulated polymer nanoparticles	Ratiometric	25-200	10	8
Ag ₂ S quantum dots (QDs)-calcein	Ratiometric	2-100	1.28	9
Carbon dots/SiO ₂ nanoparticles- AuNCs	Ratiometric	0.12-15	0.05	10
CDs@Tb-GMP	Ratiometric	0.5-80	0.13	this work

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