

Supporting Information

Multimodal Prussian Blue-type Analogs as Contrast Agents for X-ray Computed Tomography

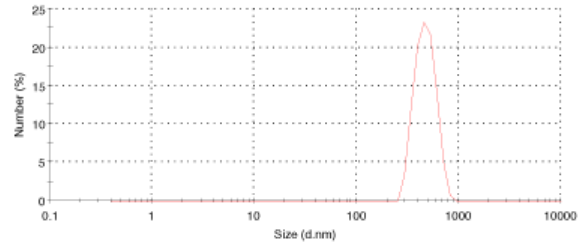
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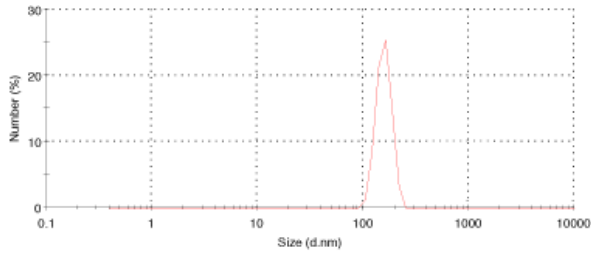
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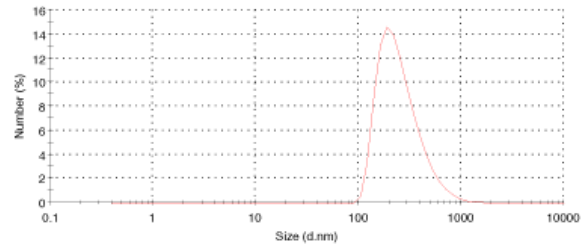
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1

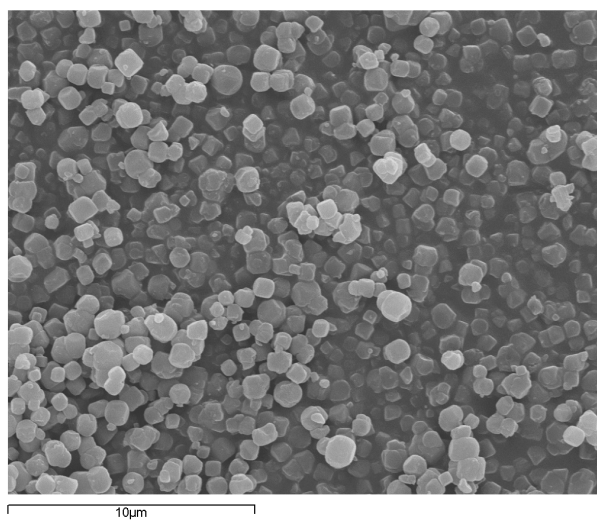


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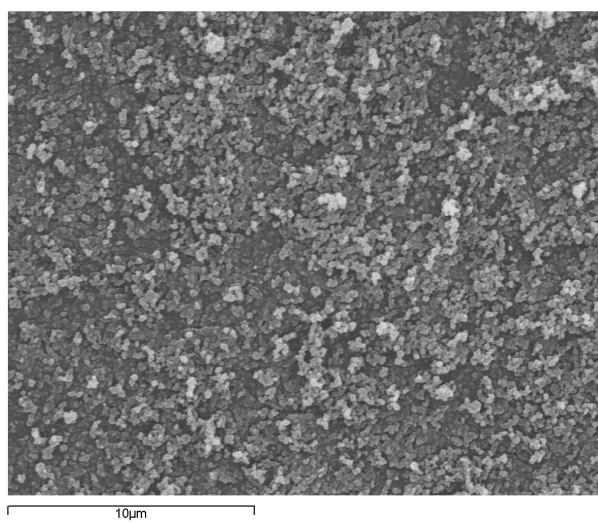


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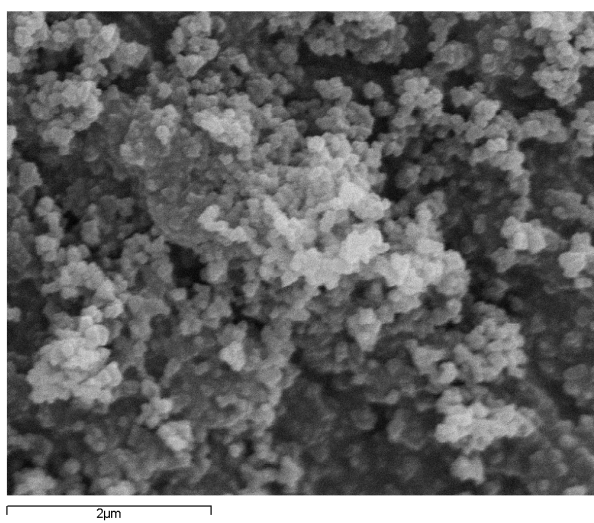
Figure S1. Size distribution of PBA 1-3 analyzed by dynamic light scattering (DLS) in aqueous suspensions.



1



2



3

Figure S2. Scanning electron microscopic (SEM) images of 1-3.

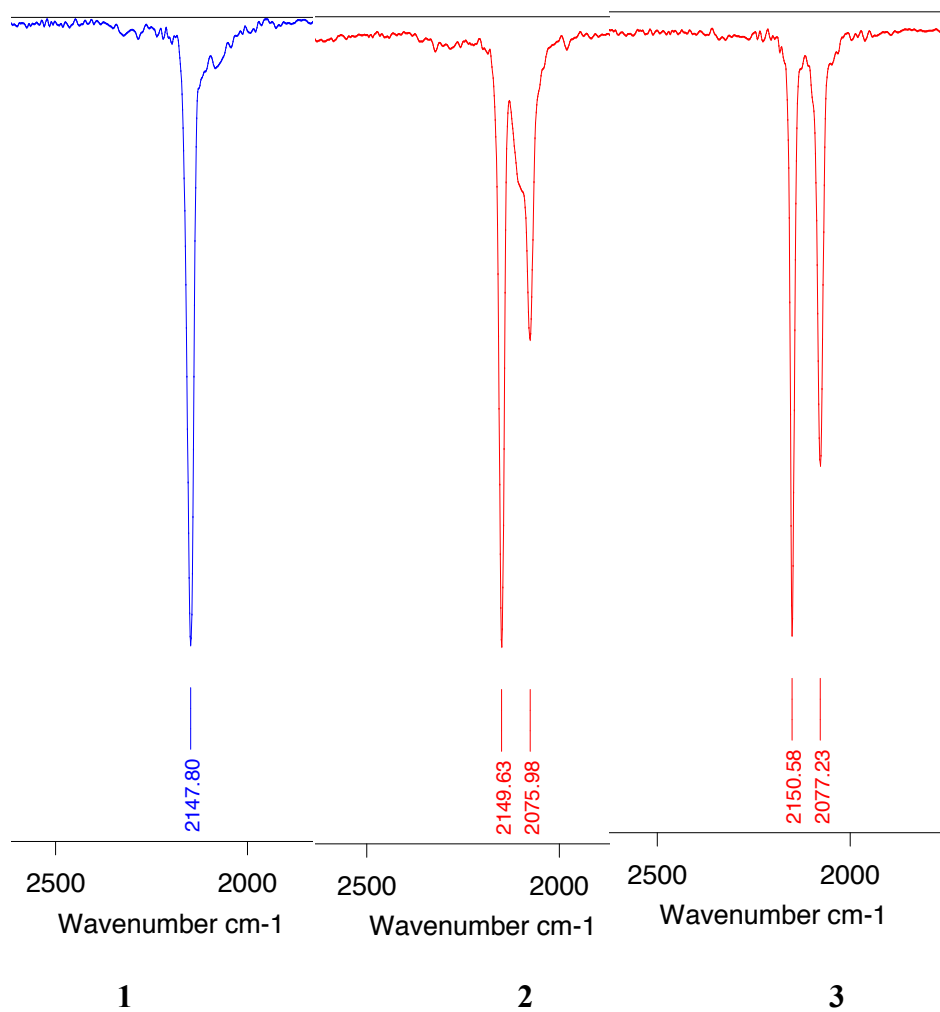


Figure S3. FT-IR spectra of **1-3** highlighting the corresponding CN stretches.

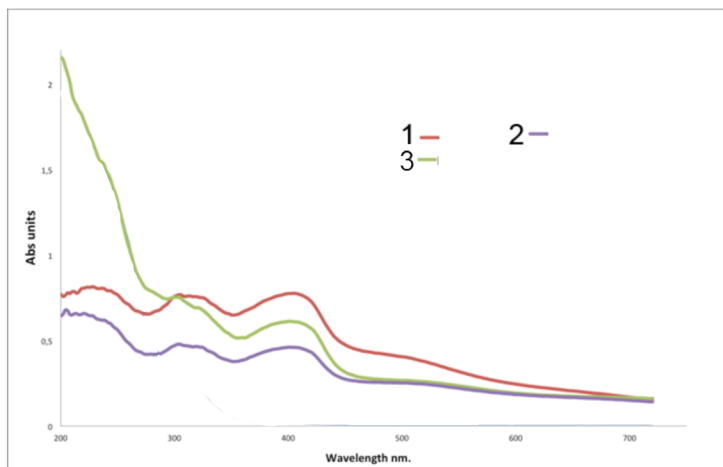


Figure S4. UV-vis spectra of **1-3** in water suspension.

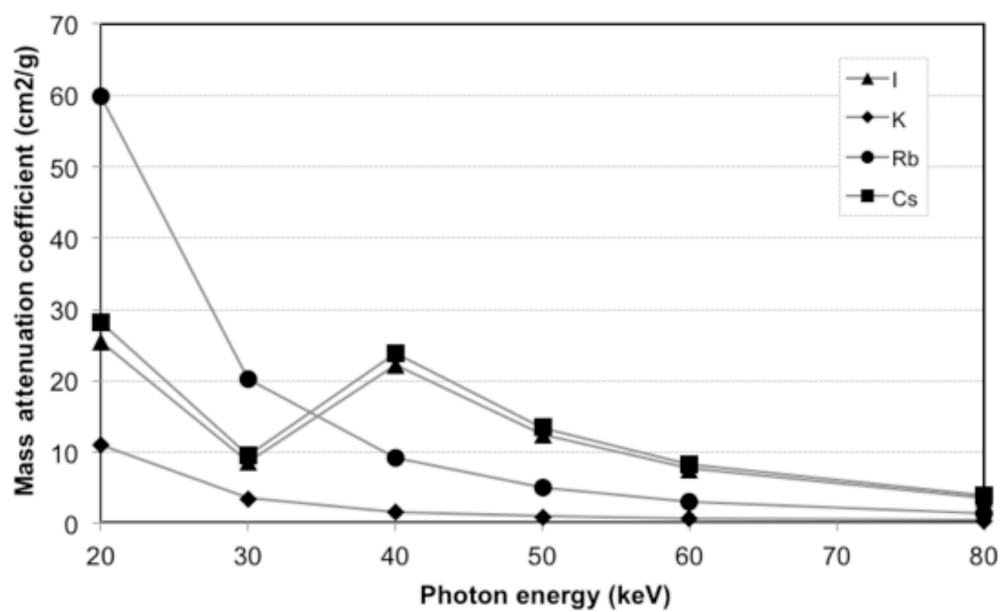
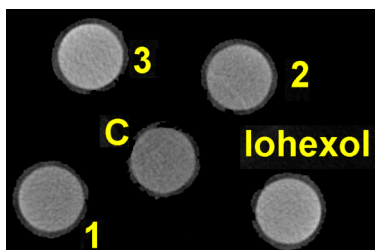
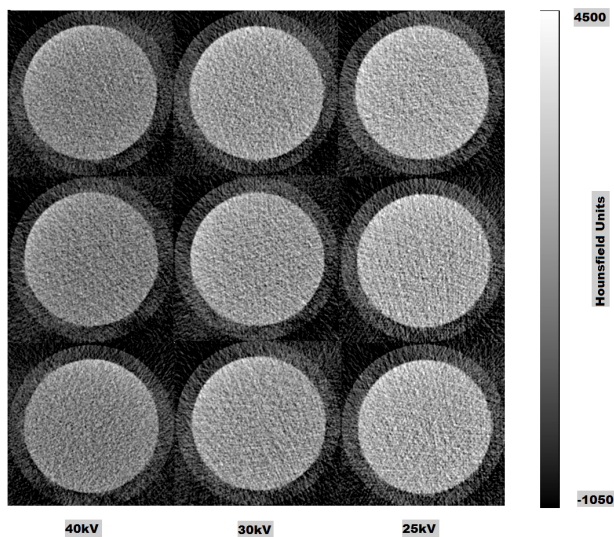


Figure S5. Plot of mass attenuation coefficients for the elements I ($Z = 53$), K ($Z = 19$), Rb ($Z = 37$), and Cs ($Z = 55$) as a function of photon energy.

[<http://physics.nist.gov/PhysRefData/XrayMassCoef/tab3.html>].



a



b

Figure S6. (a) High-resolution X-ray μ -CT image of iohexol and PBAs (1-3) suspended in 2.5% agarose. Phantoms scanned at 25 kV; C denotes the control that does not contain any contrast agents. (b) High-resolution X-ray μ -CT image of PBA 3 in triplicate scanned at various X-ray tube voltages (25, 30, and 40 kV).

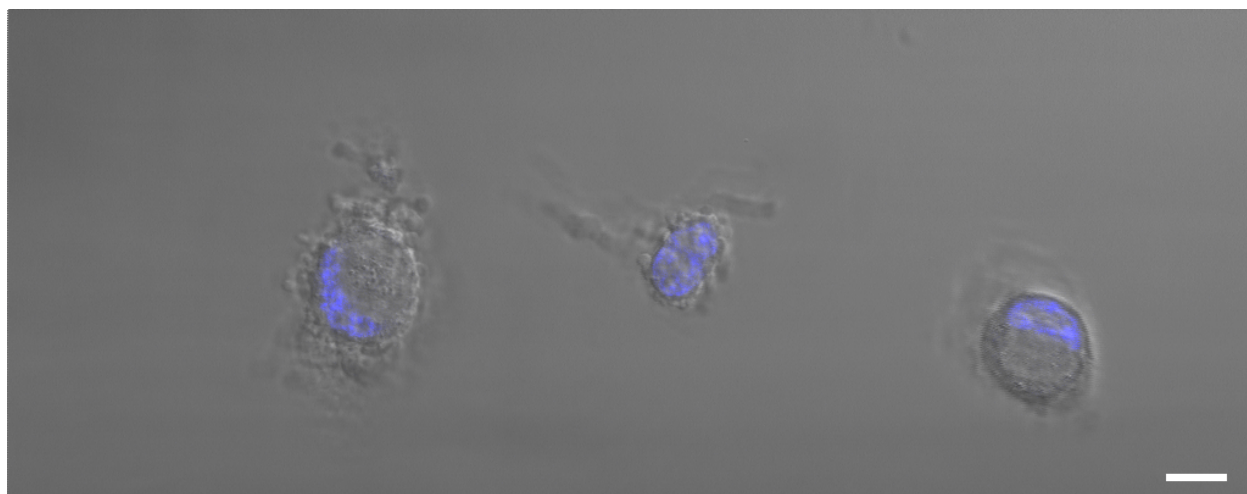


Figure S7. Transmitted microscopic image with the 10- μ m scale bar showing U87-Luc cells not treated with PBAs as a control. The blue areas are nuclei stained with the nuclear dye Hoechst 33342.