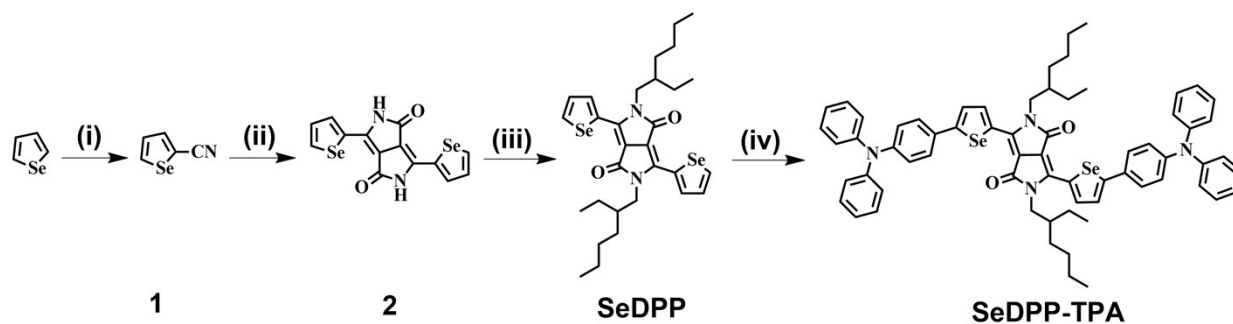


Supporting Information

Selenophene Substituted Diketopyrrolopyrrole Nanotheranostic Agent for Highly Efficient Photoacoustic/Infrared-thermal Imaging-Guided Phototherapy

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Scheme S1. Synthetic route of SeDPP-TPA. (i) Chlorosulfonyl isocyanate, dimethylformamide, 0 °C, 2 hours, 62.4% (ii) Sodium, iron(III) chloride, 2-methylbutan-2-ol, diisopropyl succinate, 90 °C, 6 hours, 37% (iii) 3-(bromomethyl)heptane, K₂CO₃, dimethylformamide, 120 °C, 24 hours, 39%. (iv) K₂CO₃, pivalic acid, Pd(OAc)₂, 4-bromo-N,N-diphenylaniline, anhydrous dimethylacetamide, 110 °C, 4 hours, 76%.

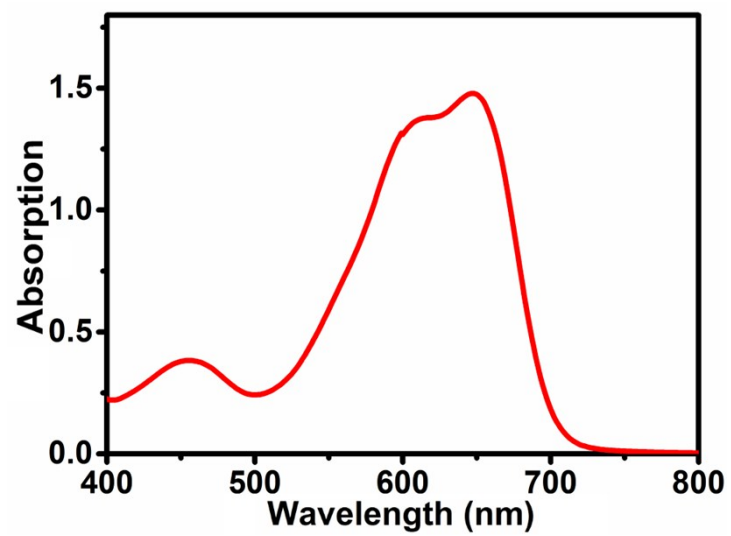


Figure S1. UV-Vis absorption spectrum of SeDPP-TPA in dichloromethane.

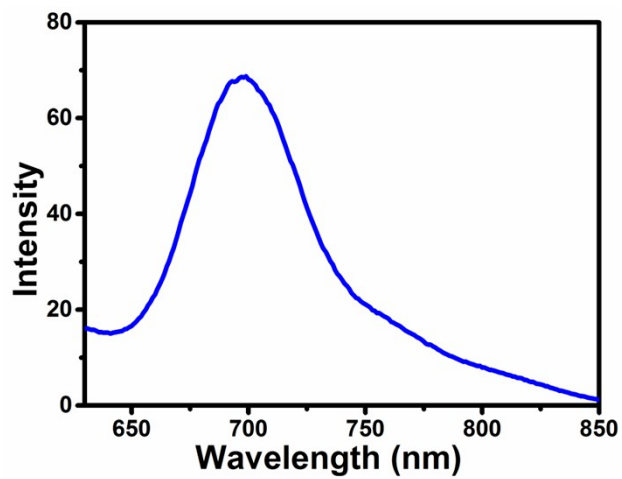


Figure S2. Fluorescence emission spectrum of SeDPP-TPA in dichloromethane.

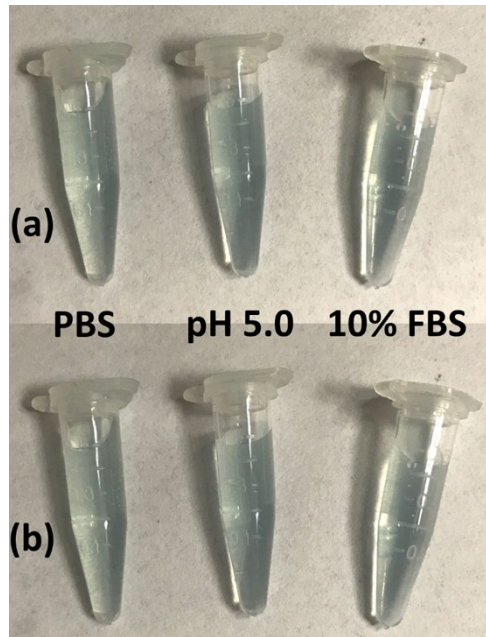


Figure S3. Photographs of SeDPP-TPA NPs ($40 \mu\text{g}/\text{mL}$) in PBS (pH 7.4), PBS (pH 5.0), and PBS (pH 7.4) containing 10% FBS, respectively. (a) Samples stand for 0 h. (b) Samples stand for 48 h.