Aggregation-Induced Emission Based PET probe for Liver Function Imaging

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I. Radiosynthesis of $[^{68}\text{Ga}]\,5$

![Scheme S1](image-url)

**Scheme S1.** Synthesis of the $[^{68}\text{Ga}^3\text{Ga}]\,5$ 0.2 mL eluent in 0.05 M HCl of $^{68}\text{Ge}/^{68}\text{Ga}$
generator (ITG, Germany) and 0.2 mL 2 N HEPES (pH = 7) were added and mixed with 10 μL of $4 \times 10^{-3}$ molL$^{-1}$ and reacted at room temperature for 10 min

II. AIE Properties of precursor 4

**Figure S1.** (a) Photographs taken under UV irradiation and (b) emission spectra of 4 in aqueous solution at different concentrations. Concentration: 10 μM. slit width = 5 nm, Excitation wavelength:330 nm.
**Figure S2.** (a) Photographs taken under UV irradiation and (b) emission spectra of 4 in aqueous solution at different concentrations. (c) Plots of PL intensities versus concentrations of 4 in DMSO/H$_2$O=1/99. The CMC of 4 is $3.7 \mu$M, slit width = 5 nm, Excitation wavelength:330 nm.
Figure S3. Dynamic image of rat obtained over 2 h min immediately following the intravenous injection of [\(^{68}\)Ga] 5, (a) 5 min, (b) 10 min, (c) 15 min, (d) 20 min, (e) 25 min, (f) 30 min, (g) 60 min, (h) 115 min.
IV. $^1$H NMR, $^{13}$C NMR and HRMS Spectra of compounds