

Supplementary Information

A Novel Ratiometric Fluorescent Probe for Mercury (II)

ions and Application in Bio-imaging

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Figure S1. ¹H NMR of compound 1

Figure S2. ESI-MS spectrum of compound 1

Figure S3. ¹H NMR of PMH

Figure S4. ESI-MS spectrum of PMH

Figure S5. Confocal microscopy images of A549 with PMH and Hg²⁺ ions

Figure S6. Confocal microscopy images of Hela with PMH and Hg²⁺ ions

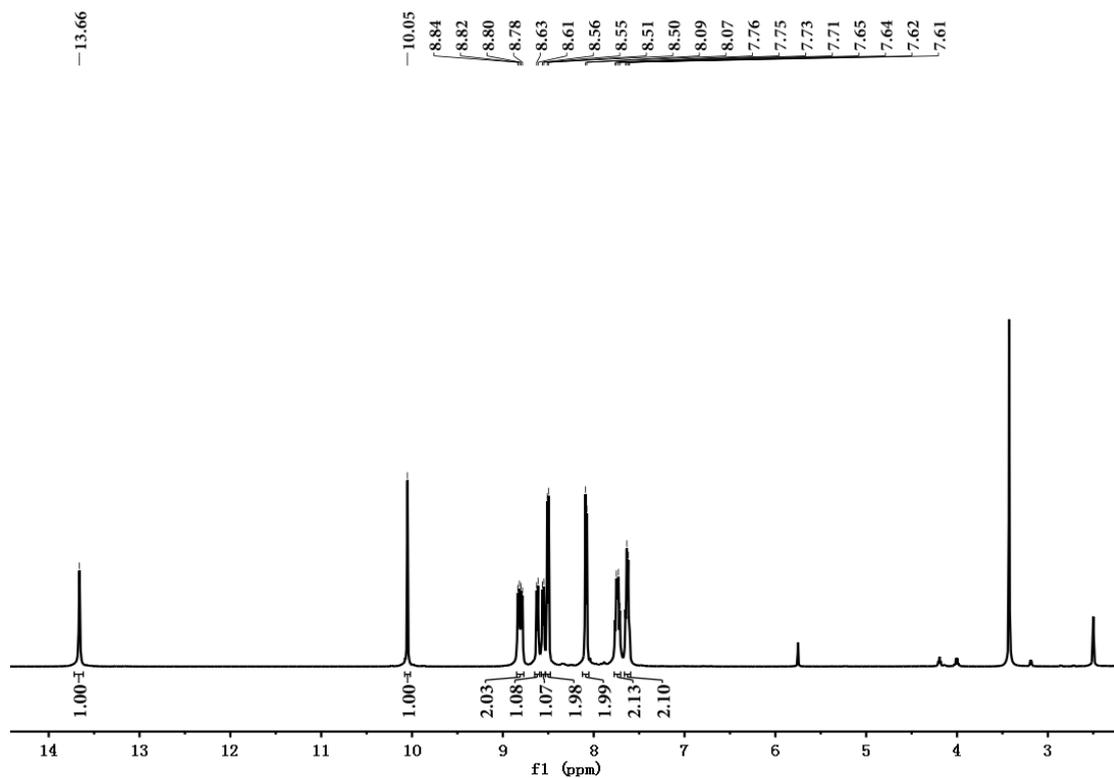


Figure S1. ^1H NMR of compound 1

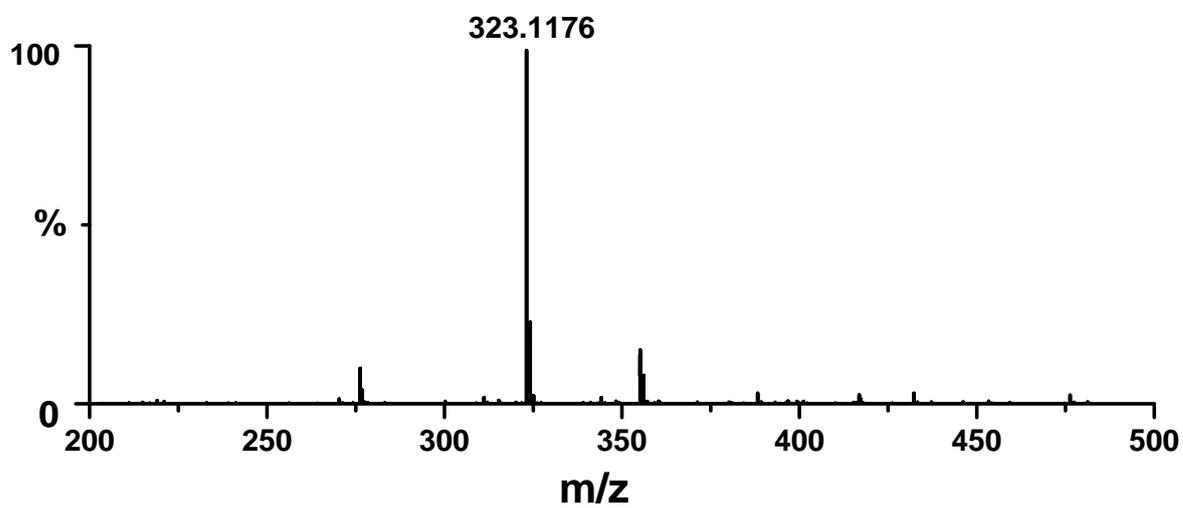


Figure S2. ESI-MS spectrum of compound 1.

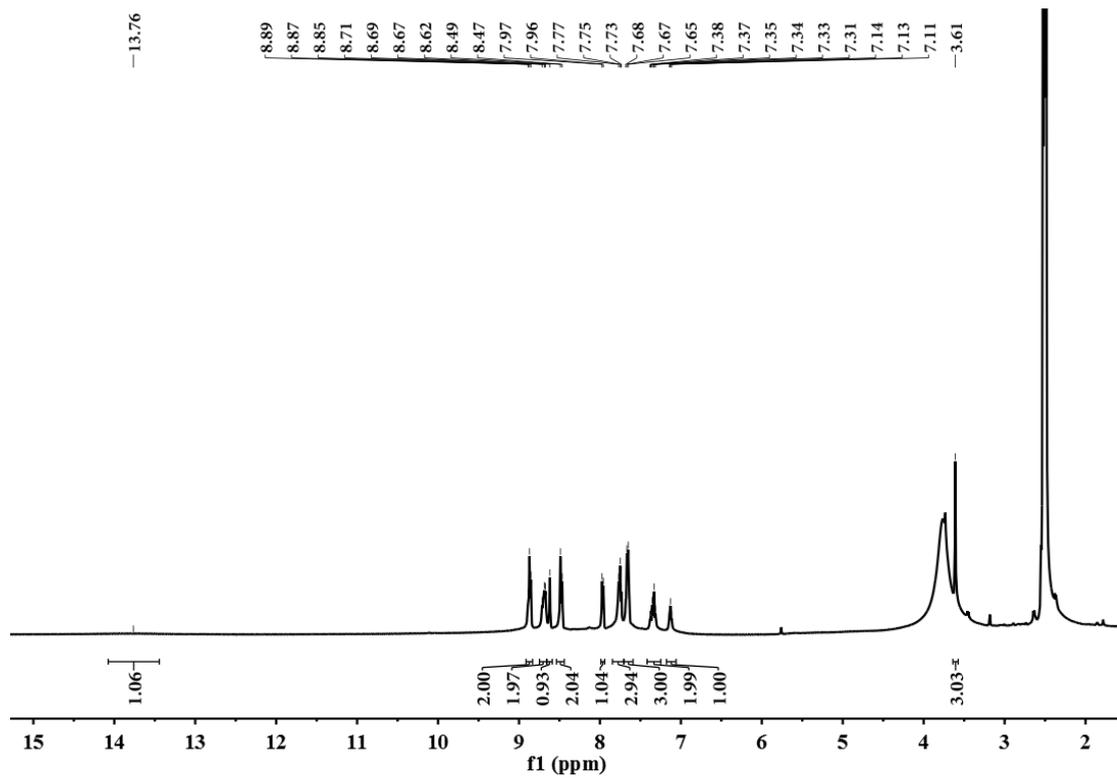


Figure S3. ¹H NMR of PMH.

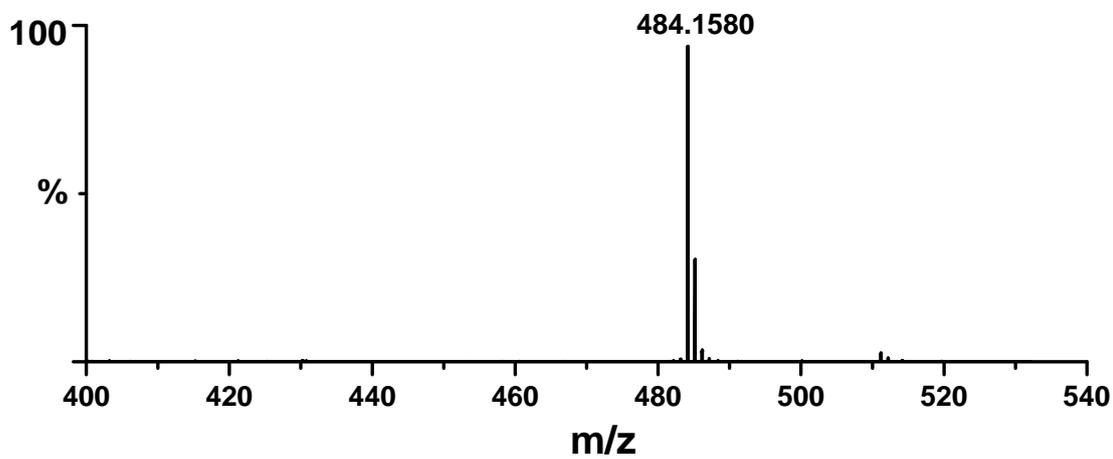


Figure S4. ESI-MS spectrum of PMH.

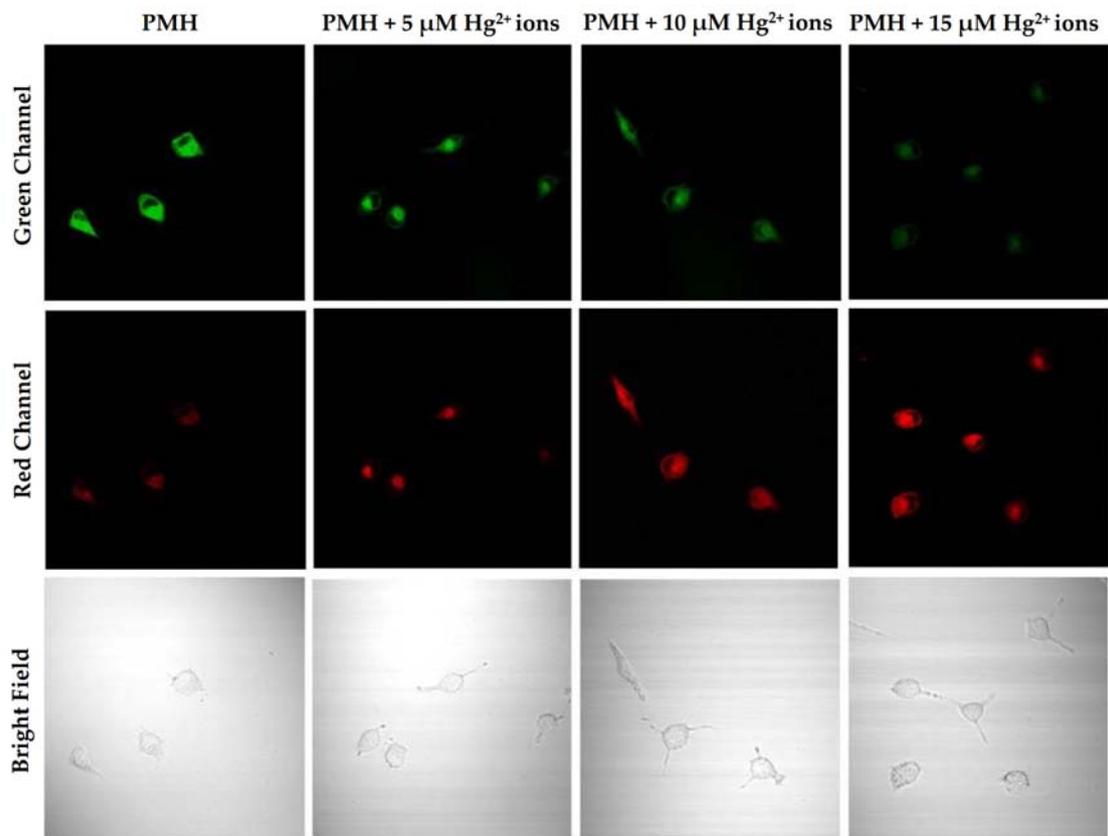


Figure S5. Confocal microscopy images of A549 cells treated with **PMH** (1 μM) and different concentration of Hg^{2+} ions (0 μM , 5 μM , 10 μM , 15 μM) (excited at 405 nm), Green Channel: fluorescent image of emission between 430–460 nm; Red Channel: fluorescent image of emission between 490–550 nm.

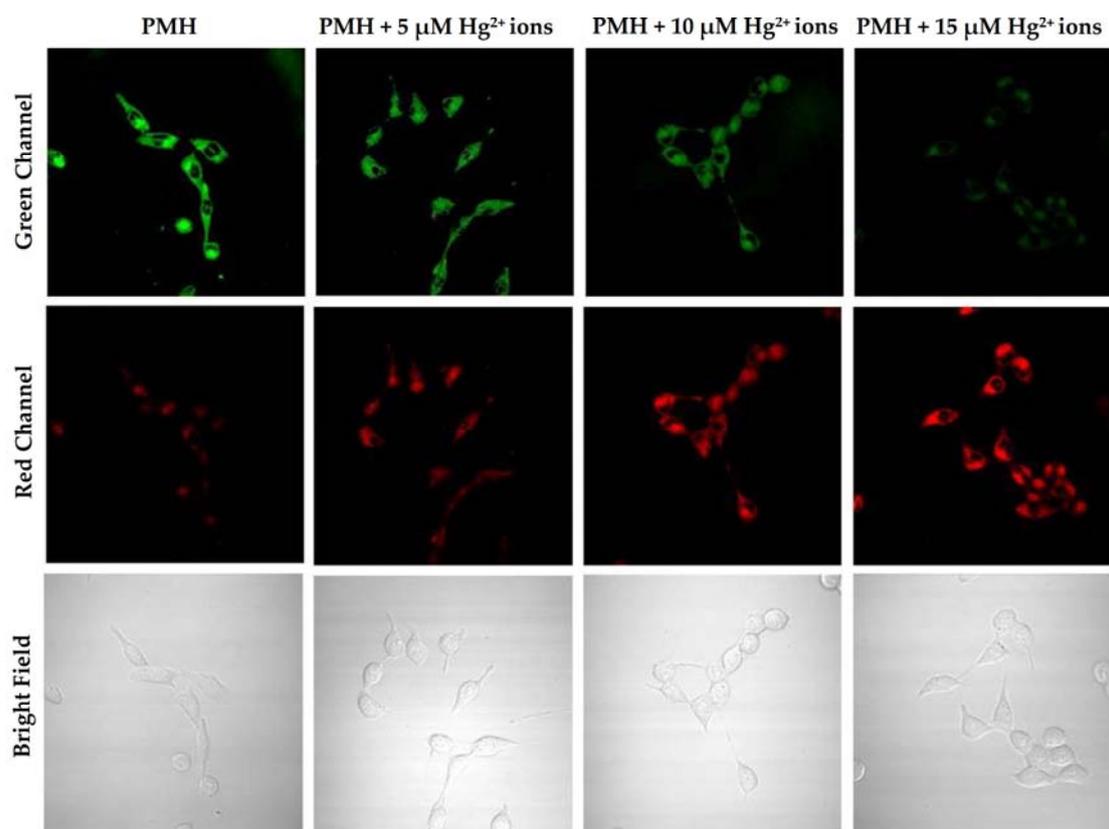


Figure S6. Confocal microscopy images of HeLa cells treated with **PMH** (1 μM) and different concentration of Hg^{2+} ions (0 μM , 5 μM , 10 μM , 15 μM) (excited at 405 nm), Green Channel: fluorescent image of emission between 430–460 nm; Red Channel: fluorescent image of emission between 490–550 nm.