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One-step synthesis of NaLu<sub>80</sub>–xGdxF<sub>4</sub>:Yb<sub>183</sub>+/Er<sub>23</sub>+(Tm<sub>3</sub>+) upconversion nanoparticles for in vitro cell imaging

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**+One-step synthesis of  $\text{NaLu}_{80-x}\text{Gd}_x\text{F}_4:\text{Yb}_{18}^{3+}/\text{Er}_2^{3+}(\text{Tm}^{3+})$   
upconversion nanoparticles for *in vitro* cell imaging**

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