

# Non-Quenching Fluorescent Probes



## Application

Live Cell Imaging consumables play an important role in optimizing the yielded results. The optimal dye, probes, and medium are crucial for time-lapse imaging wherein the cells are exposed for a long duration. The potency of cells may negatively be affected by the wrong choice of medium.

Live Cell Imaging Market Size Worth \$9.3 Billion by 2025<sup>1</sup>



## Technology

Aggregation-induced emission (AIE) luminogens (AIEgens) creates new expectations and opportunities in the biomedical field due to their outstanding fluorescent property. The mitochondrial probe can be co stained with blue, green, yellow and red probes a whole spectrum fluorescence.

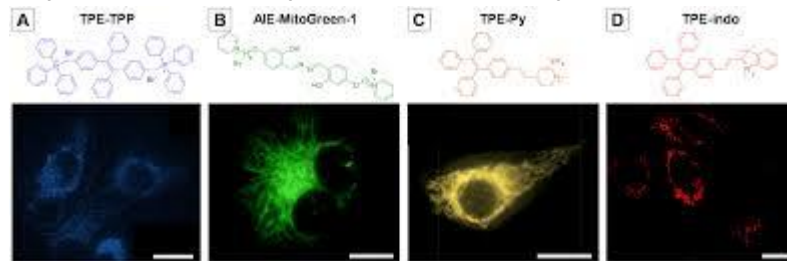


Fig 1. Polychromatic imaging of mitochondria by AIE mitoprobes. (A) Blue; (B) Green; (C) Yellow and (D) Red. Scale bars: 30  $\mu\text{m}$ .



## Talk to Us

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## Advantages

- Free of aggregation-caused quenching (ACQ) at high concentration
- Excellent photostability, large Stokes shift, high signal-to-noise ratio
- High brightness, strong anti-photobleaching ability
- Low cytotoxicity: Highly suitable trackers for long-term cellular tracing

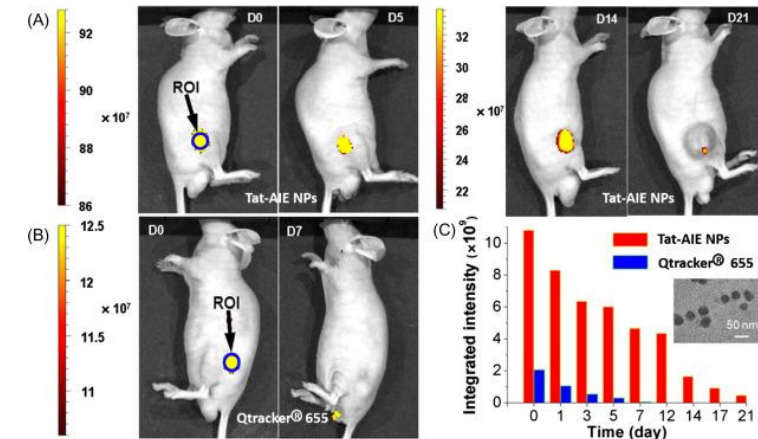


Fig 2. in vivo fluorescence images of C6 glioma cells by staining with (A) Tat-TPETPAFN NPs (Tat-AIE NPs) and (B) Qtracker 655 after injection for different days. (C) The integrated fluorescence intensities of the corresponding regions of interest



## Intellectual Properties

US Patent No. US9,315,465B2; US9,109,155B2; US10,113,968B2

