Electronic Supporting Information

A highly selective AIE fluorogen for lipid droplet imaging in live cells and green algae

Erjing Wang,‡a Engui Zhao,‡ab Yuning Hong,ab Jacky W. Y. Lam,ab and Ben Zhong Tang*abc

a HKUST-Shenzhen Research Institute, No. 9 Yuexing 1st RD, South Area, Hi-tech Park, Nanshan, Shenzhen, 518057, China. E-mail: tangbenz@ust.hk Tel: +852-2358 7375, Fax: +852-2358 1594.
b Department of Chemistry, Division of Biomedical Engineering, Institute for Advanced Study and Institute of Molecular Functional Materials, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong, China
c Guangdong Innovative Research Team, SCUT-HKUST Joint Research Laboratory, State Key Laboratory of Luminescent Materials and Device, South China University of Technology, Guangzhou, 510640, China

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**Fig. S12** Fluorescent images of liver LO2 cells stained with Nile Red (100 ng/mL, 0.314 μM) after incubation in the presence of (A) 0, (B) 12.5, (C) 25 and (D) 50 μM oleic acid for 6 h. Staining time: 5 min; excitation wavelength: 460–490 nm.

**Fig. S1** Absorption spectra of TPE-AmBr and TPE-AmAl in pure THF solutions. Concentration: 10 μM.
Fig. S2 (A) Absorption and (B) emission spectra of TPE-AmAl in different solvents. Excitation wavelength: 405 nm.

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**Fig. S6** Confocal images of oleic acid (50 μM)-treated HeLa cells stained with TPE-AmAl (10 μM) for 15 min. (A) Phase contrast, (B) upon excited at 405 nm, and (C) merged image of panels A and B.
**Fig. S7** Signal loss (%) of fluorescence intensity of Nile red in oleic acid-treated HeLa cells with scanning time. Staining time: 5 min; scanning speed: 11.22 s/scan; excitation wavelength: 488 nm.

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