

A lipid droplet specific fluorescent probe for atherosclerotic plaque imaging

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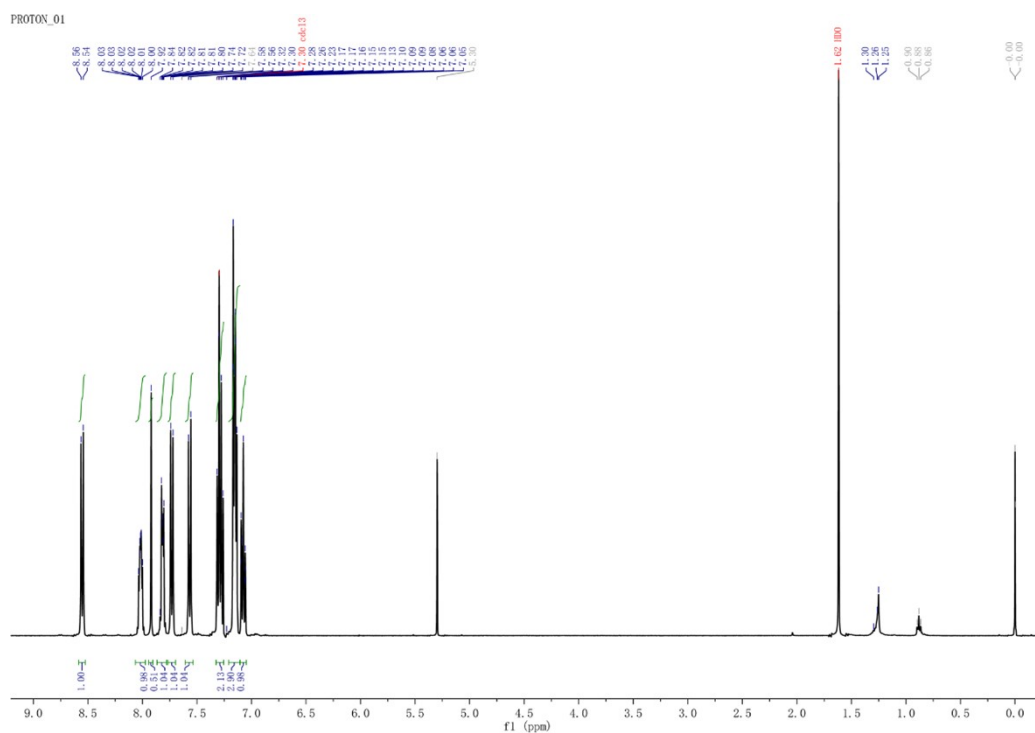


Fig. S1 ^1H NMR spectrum of TBI in CDCl_3 .

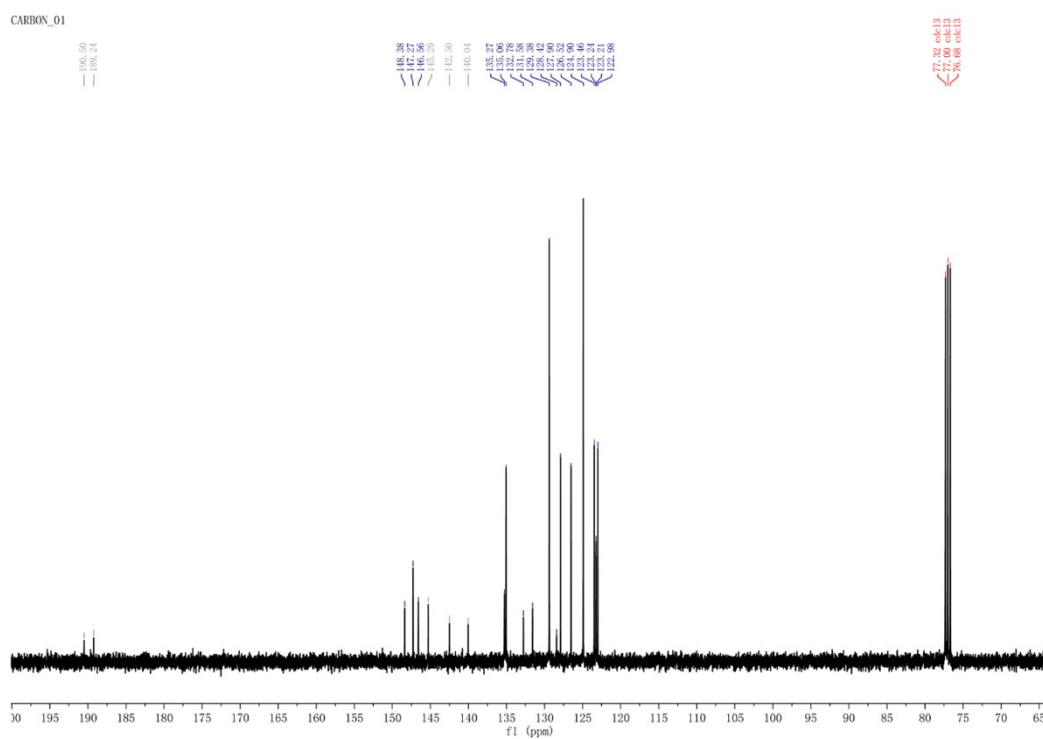


Fig. S2 ^{13}C NMR spectrum of TBI in CDCl_3 .

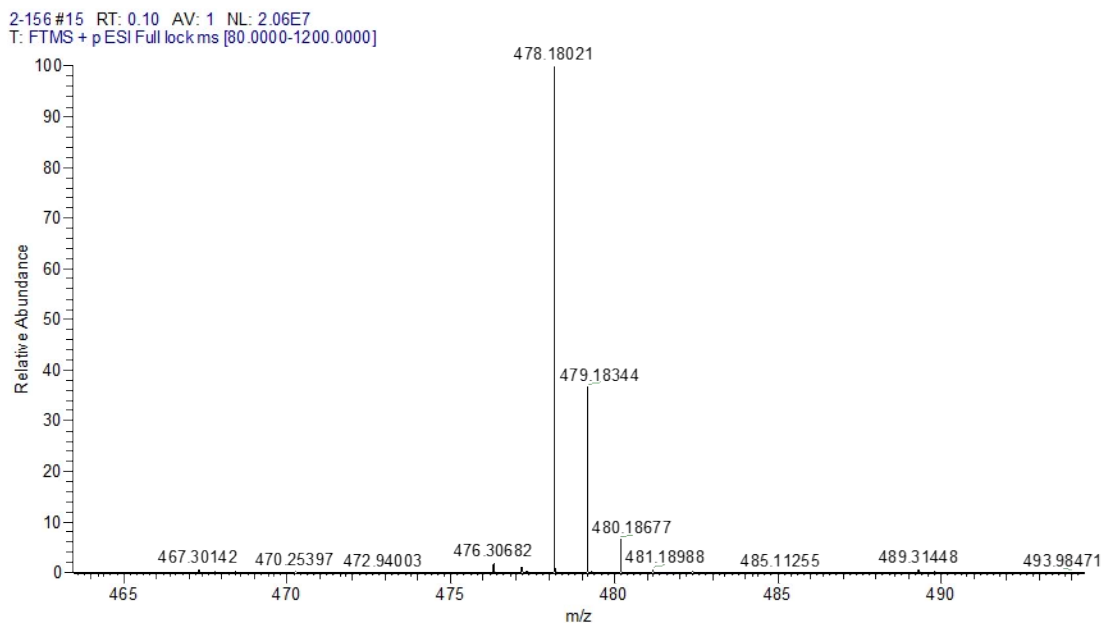


Fig. S3 HR-MS of TBI.

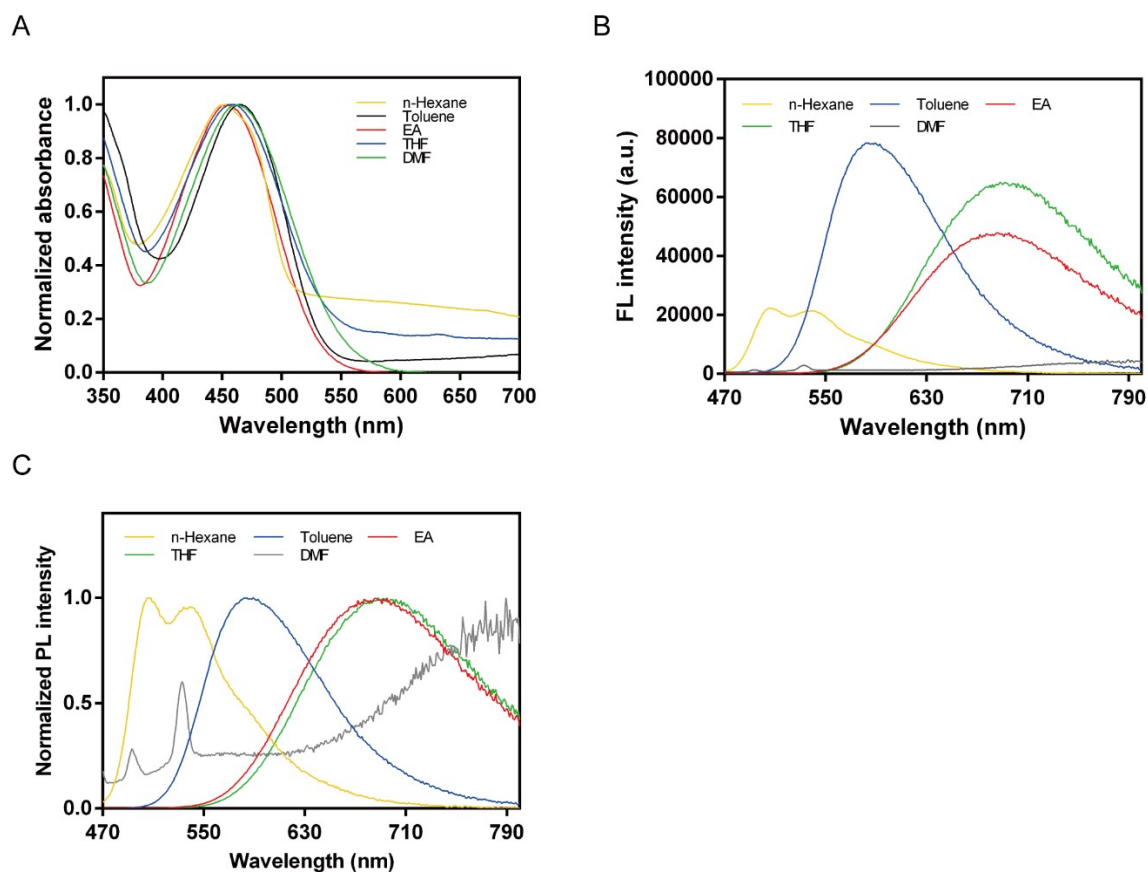
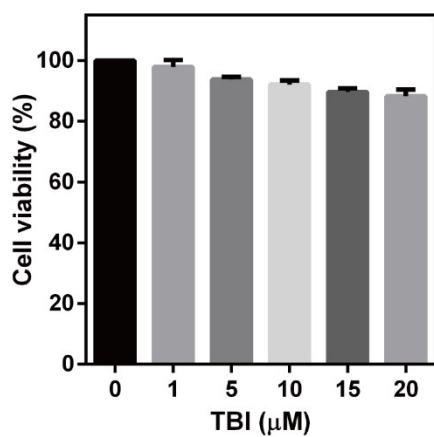


Fig. S4 (A) Normalized absorbance of **TBI** in various organic solvents (5 μ M). (B) Emission spectra of **TBI** in various organic solvents (5 μ M). (C) Normalized emission spectra of **TBI** in various organic solvents (5 μ M).

A



B

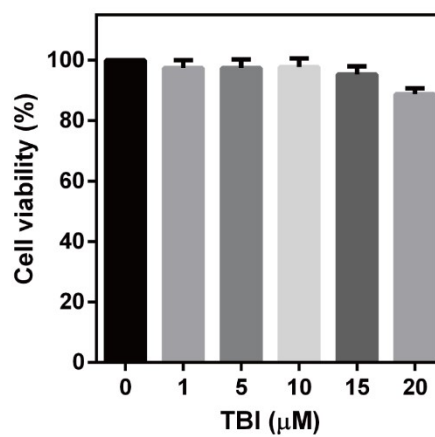


Fig. S5 Relative cell viability of HeLa cells (A) and Raw 264.7 cells (B) treated with different concentrations (0, 1, 5, 10, 15 and 20 μM) of **TBI** for 24 h.

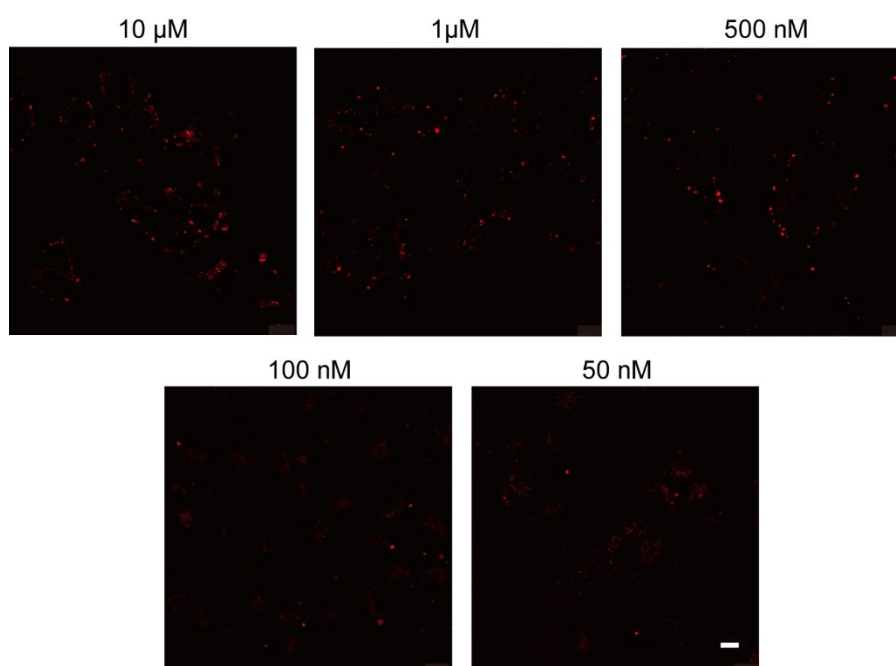


Fig. S6 CLSM images of HeLa cells stained with different concentrations of **TBI** (10 μM, 1 μM, 500 nM, 100 nM and 50 nM), $\lambda_{\text{ex}} = 488 \text{ nm}$, $\lambda_{\text{em}} = 570\text{-}620 \text{ nm}$; Scale bar: 10 μm.

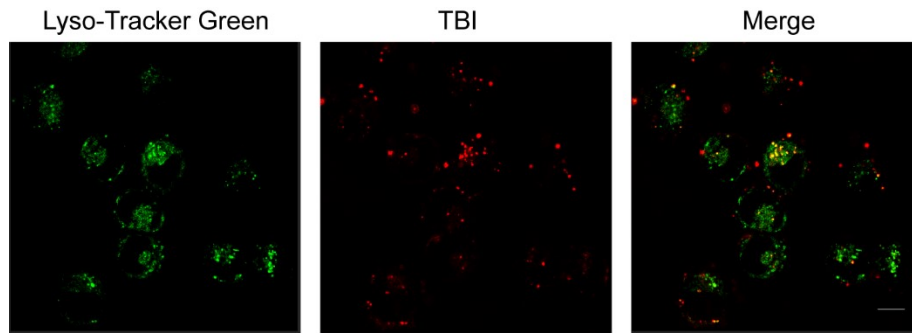


Fig. S7 Co-staining images of HeLa cells with **TBI** ($1 \mu\text{M}$, $\lambda_{\text{ex}} = 488 \text{ nm}$, $\lambda_{\text{em}} = 570\text{-}620 \text{ nm}$) and Lyso-Tracker Green (50 nM , $\lambda_{\text{ex}} = 488 \text{ nm}$, $\lambda_{\text{em}} = 500\text{-}550 \text{ nm}$).

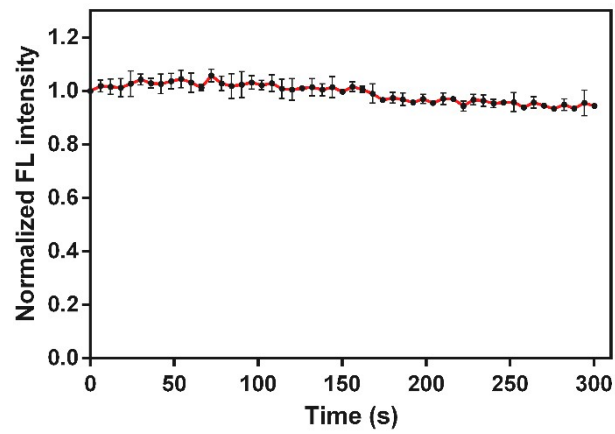
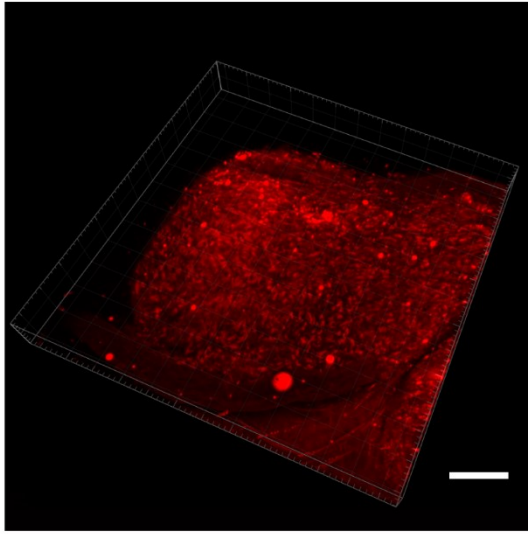


Fig. S8 Photobleaching curves of the fluorescence intensity of **TBI** staining HeLa cells during laser scanning for 5 min.

A



B

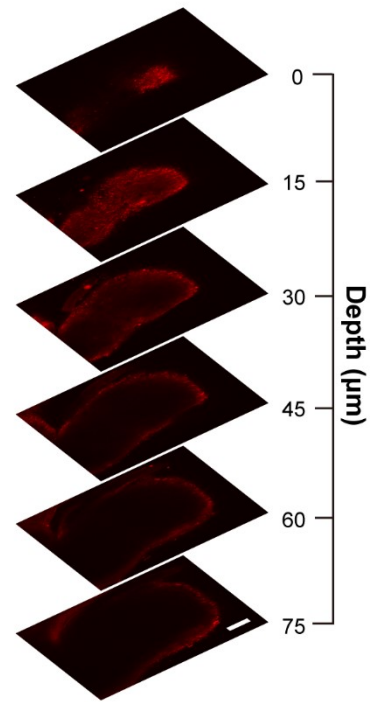


Fig. S9 (A) 3D reconstructed images of the atherosclerotic plaques stained with **TBI** (1 μM , $\lambda_{\text{ex}} = 488 \text{ nm}$, $\lambda_{\text{em}} = 570\text{-}620 \text{ nm}$). Scale bar: 100 μm . (B) CLSM images of the atherosclerotic plaques at various imaging depths.