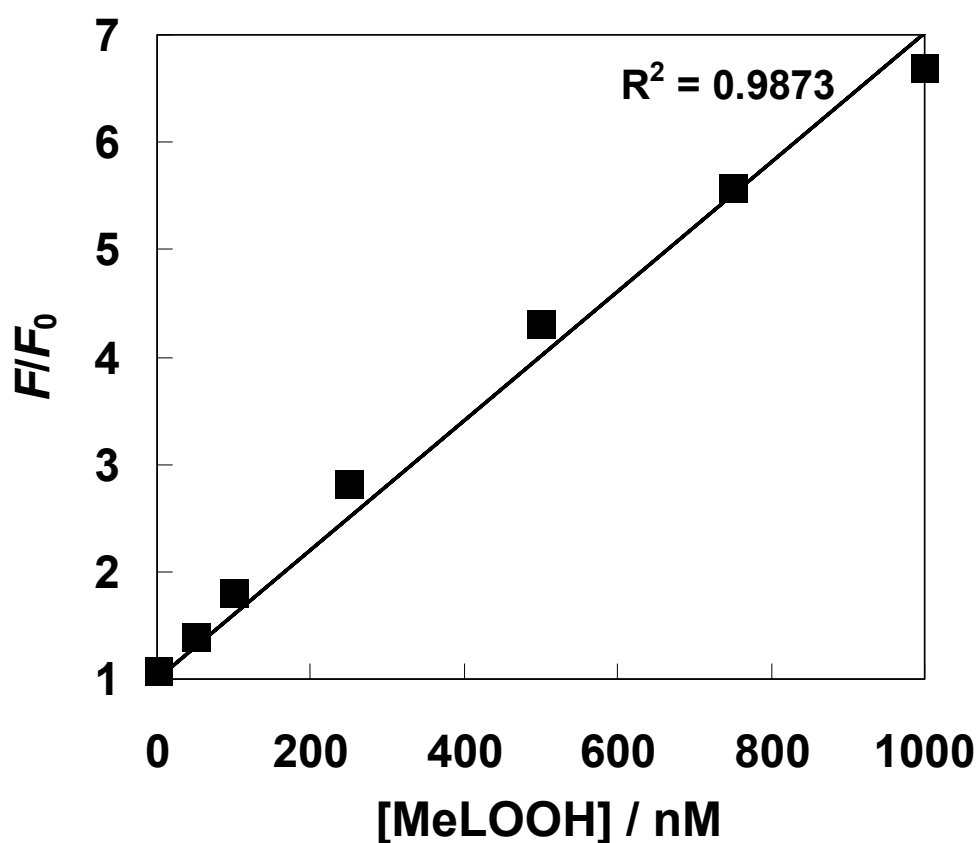


### Supporting Information

## Swallow-tailed perylene derivative: a new tool for fluorescent imaging of lipid hydroperoxides

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**Fig. S1** Relationship between the ratio of the fluorescence intensity of Spy-LHP and the concentration of MeLOOH. The fluorescence intensity was measured 5 min after the addition of MeLOOH (50, 100, 250, 500, 750, 1000 nM) to the Spy-LHP (1  $\mu$ M) under aerobic conditions with excitation at 465 nm at 37 °C in ethanol.  $F_0$  and  $F$  denote the fluorescence intensity at 535 nm before and after the addition of MeLOOH, respectively

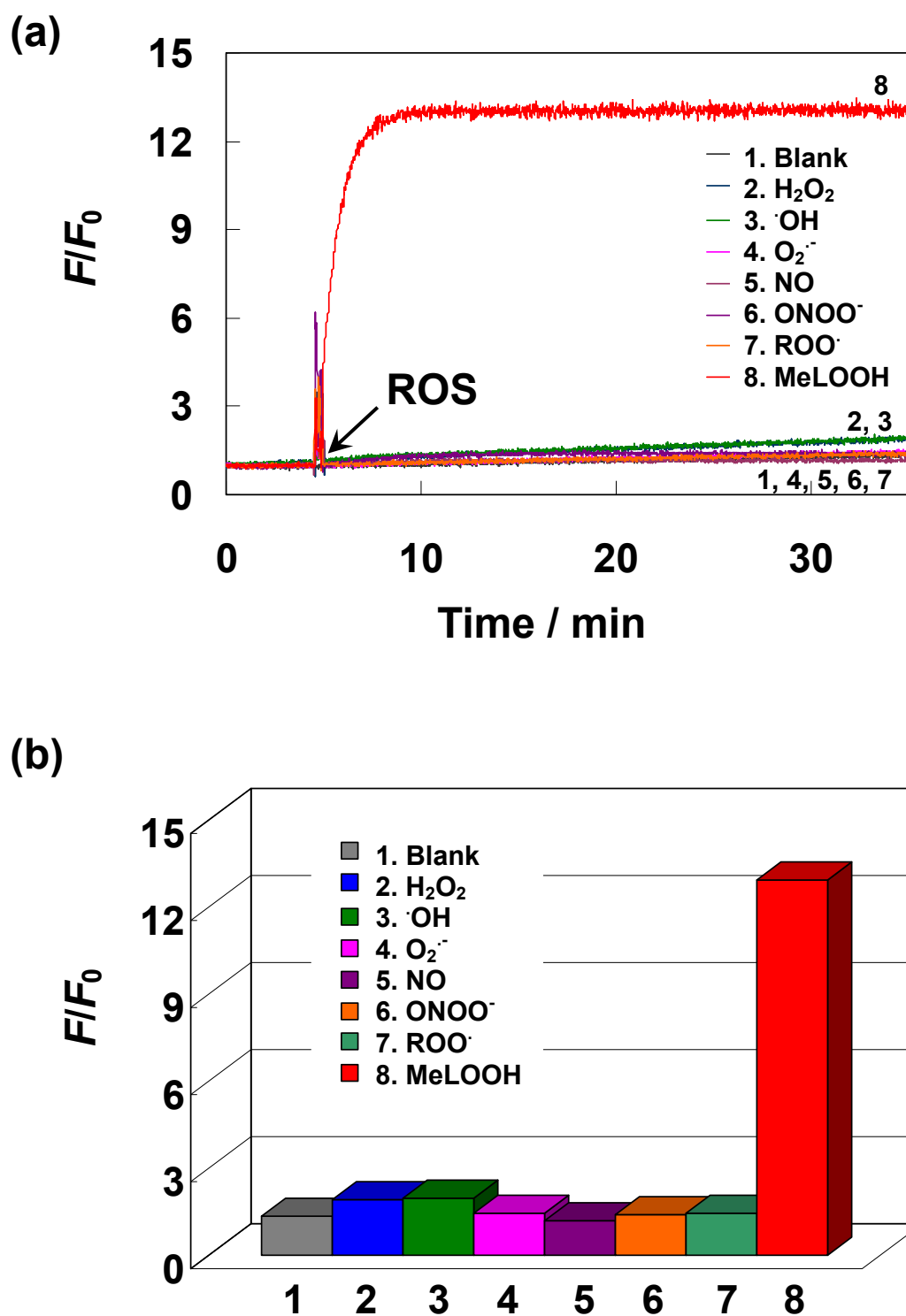
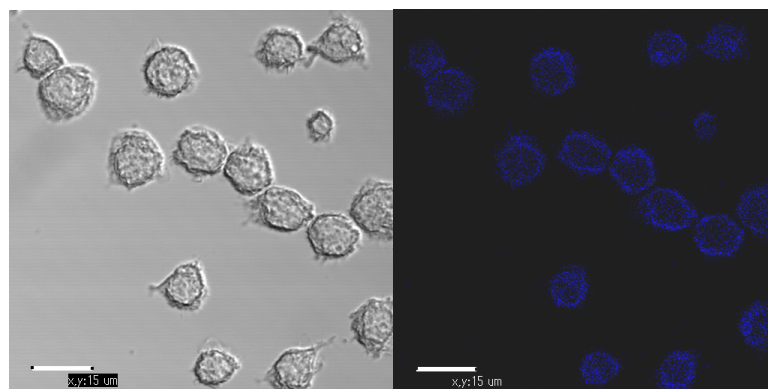


Fig. S2 The colour versions of the Fig. 4.



**Fig. S3** Phase contrasts and fluorescence images of DPPP=O in live J774A.1 cells. Scale bar indicates 15  $\mu\text{m}$ .