

LYSO-ID™ RED

GFP-Certified™ Lyso-ID™ Red Lysosomal Detection Kit

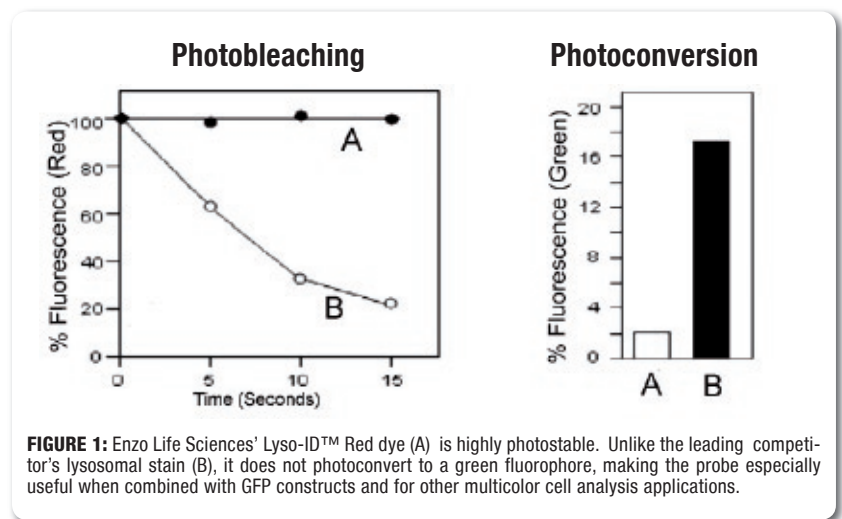
ENZ-51005-500

500 Reactions

HIGHLIGHT

- Novel acidic **organelle-selective dye**, suitable for live cell imaging of lysosomes
- Long wavelength red emission that is **easily multiplexed with common fluorescent dyes** (coumarin, FITC, Cyanine 3) and fluorescent proteins (BFP, CFP, GFP, YFP)
- **No photo conversion** to a green emitting dye and no complicating metachromatic dual emission artifacts, facilitating analysis with GFP, FITC and other fluorescent probes
- **Highly resistant to photobleaching and concentration quenching**, ensuring strong, consistent fluorescence signal, even after extended viewing periods
- Stringently manufactured, to control and eliminate non-specific assay artifacts

Enzo Life Sciences' GFP-Certified™ Lyso-ID™ Red Lysosomal Detection Kit is an ideal choice for fluorescence co-localization imaging with GFP-tagged proteins, providing spectrally pure red signal. By contrast, many red-emitting lysosomal probes photoconvert to green fluorescent species or display metachromatic artifacts wherein emission occurs both in the red and green regions of the spectrum, leading to spurious results in GFP co-localization experiments [E.C. Freundt, et al.; Cell Res. 17, 956 (2007), F. Nadrigny, et al.; Biophys. J. 93, 969 (2007)]. The GFP-Certified™ Lyso-ID™ Red Lysosomal Detection Kit contains a proprietary acidic organelle-selective dye suitable for staining live cells. The dye is compatible with most fluorescence detection systems, including conventional and confocal fluorescence microscopes, as well as High Content Screening (HCS) platforms. This kit is specifically designed for use with GFP-expressing cell lines, as well as cells expressing blue, cyan or yellow fluorescent proteins (BFPs, CFPs, YFPs). The Lyso-ID™ Red dye has been validated for utility in live cell imaging applications, showing an appropriate response to treatment with well characterized lysosomal perturbation agents. A lysosome perturbation agent, chloroquine, is provided as a positive control for monitoring changes in lysosome number and volume. A nuclear counterstain (Hoechst 33342) is provided to highlight this organelle as well.



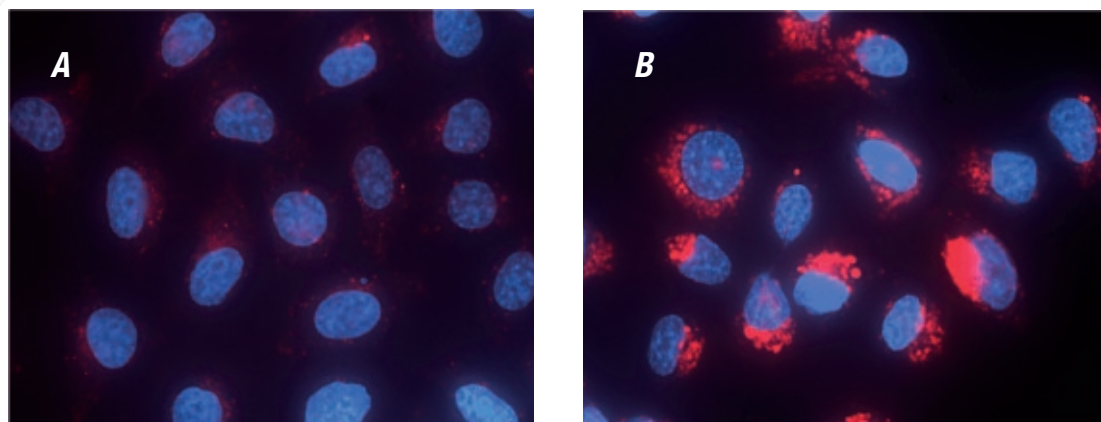


FIGURE 2: Enzo Life Sciences' Lyso-ID™ Red dye is a cell-permeant fluorescent probe that selectively associates with lysosomes and other acidic organelles (A). When cells are pretreated with weakly basic cell-permeant compounds, such as chloroquine, a dramatic increase in lysosome-like vesicle number and volume (B) is demonstrated. This confirms Lyso-ID™ Red dye partitions with the lysosomal compartment.

Related Products

Product	Prod. No.	Size
GFP-Certified™ Mito-ID™ Red Mitochondrial Detection Kit	ENZ-51007-500	500 Reactions
Total Nuclear-ID™ Green/Red Nucleolar/ Nuclear Detection Kit	ENZ-51006-500	500 Reactions
Acridine Orange (Ultra Pure)	ENZ-52405	100 mg
DiOC6(3) iodide (Ultra Pure)	ENZ-52303	100 mg
JC-1 (Ultra Pure)	ENZ-52304	5 mg
JC-10 [Enhanced JC-1] (Ultra Pure)	ENZ-52305	5 mg
Nile Red (Ultra Pure)	ENZ-52551	25 mg

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