

Light-on LysoView™ 555

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Product Description

Light-On LysoView™ 555 is a red fluorogenic lysosome dye with pH-dependent fluorescence. Light-On LysoView™ dye is unique among commercially available lysosomotropic dyes in that its fluorescence in cells is activated by exposure to UV excitation. In solution, the dye shows pH-dependent fluorescence that does not require UV activation. In cells, the dye initially shows low fluorescence, but brief exposure to UV excitation from a mercury arc lamp through a DAPI filter activates bright red fluorescence localizing to lysosomes.

We hypothesize that the dye assumes a non-fluorescent structure that can be switched to a fluorescent structure by UV excitation. Mercury arc lamp excitation of the dye using other filter sets (FITC, rhodamine) or dye excitation with a 405 nm laser does not activate fluorescence. Lysosomal fluorescence fades several minutes after UV exposure, but can be re-activated in the same cells multiple times by exposure to UV light. Therefore the dye provides a novel tool for UV-activated, reversible fluorescence imaging of lysosomes. See the product protocol for more information.

Also see our red fluorescent [LysoView™ 540](#), and far-red fluorescent [LysoView™ 633](#) lysosome stains, which do not require UV activation.

Product attributes

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| Probe cellular localization | Lysosomes |
| For live or fixed cells | For live/intact cells |
| Assay type/options | Long term staining (24-72h), No-wash staining, Real-time imaging |
| Cell permeability | Membrane permeant |
| Colors | Red |
| Excitation/Emission | 554/583 nm |

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