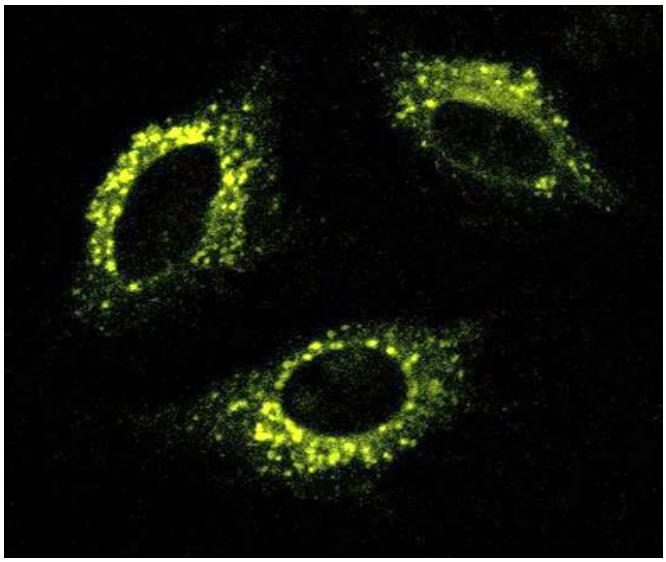
FLUOROPHORES FOR TARGETED INSIGHTS

IraZolve-L1™

VISUALISE LIPID RICH COMPARTMENTS

Product Name	IraZolve-L1™
Product Code	**1101023**
CAS Number	**2169684-98-2**
Ex/Em	**405 nm/ 600 nm**
Quantity	**1.0 mg**
Application	**Lipid Droplets & Endoplasmic Reticulum**



IraZolve-L1™ is a cell permeant stain for labelling intracellular lipid droplets and the endoplasmic reticulum. The large Stokes shift (Ex/Em 405/600 nm) provides users with greater flexibility in experimental design, ideal for dual and multi-colour labelling experiments. IraZolve-L1™ has superior photostability and low cytotoxicity making it suitable for time lapse imaging of live cell. Easy to use with minimal sample preparation and a short staining required.

Specifications

- Simple and quick application
- Suitable for fixed or live cell imaging
- Low cytotoxicity
- Highly resistant to photobleaching
- Large stoke shift (Ex/Em 405 nm / 600 nm)
- Compatible with other fluorescent dyes
- Ideal for epi-fluorescence, confocal and multiphoton imaging
- Stable at room temperature

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Precaution For Use

Please read the entire procedure before performing staining procedure for fixed or live cell imaging and consider the safety data sheet. For laboratory use only. Not fully tested. Not for drug, household, human or veterinary uses.

Storage Condition

IraZolve-L1™ will perform as specified if stored at room temperature. and protect from light. Once reconstituted in DMSO use with 6 months.

Reagent Preparation

Reconstitute vial of IraZolve-L1™ (~1.0 mg) with 149 µL of DMSO to obtain a 10 mM stock solution. Mix thoroughly before use. Do not reconstituted in aqueous solutions such as phosphate-buffered saline (PBS) or cell culture media. IraZolve-L1™ should be diluted in an appropriate buffer or cell culture media to a concentration of 10µM - 20µM immediately before use (this solution should not be stored for later use).

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Staining Protocol For Live Cell

Serum-free culture medium is recommended for staining, as the lipids in the serum can reduce resulting staining.

For Adherent Cells:

1. Grow cells in 6 well-plate on coverslips with appropriate culture medium and under appropriate growth conditions
2. Grow cells to desired confluency (70 – 80%)
3. Remove culture medium and add pre-warmed PBS or serum-free medium containing 10 – 20 µM of IraZolve-L1™ (1:1000 – 1:500 dilution of 10 mM stock solution)
4. Incubate cells for 30 minutes under appropriate growth conditions
5. Remove staining media and wash cell 3 times for 1 minutes
6. Mounted coverslips in an aqueous mounting media for immediate imaging

For Suspended Cells:

1. Centrifuge cell suspension to obtain a cell pellet and remove the supernatant
2. Resuspend cells in pre-warmed PBS (37°c) or serum-free medium containing 10 – 20 µM of IraZolve-L1™ (1:1000 – 1:500 dilution of 10 mM stock solution)
3. Incubate cells for 30 minutes under appropriate growth conditions
4. Re-pellet the cells by centrifugation cell suspension and remove staining media
5. Resuspend in PBS or serum-free culture medium for immediate imaging
6. Cells can be prepared as a wet mount or adhere to poly-L-lysine coated coverslips. Mount in anaqueous mounting media for immediate imaging

For Co-Staining Experiment:

1. Prior to co-staining, make sure that the spectral profiles of counter-staining agent and IraZolve-L1™ can be appropriately resolved
2. Stain cells as described above with reduced washing step to 30 seconds following incubation
3. Stain cells with counter-staining agent according to manufacturer's instructions
4. Following washes, mount in an aqueous mounting media for immediate imaging

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Fluorescent Imaging Settings

Epi-fluorescent Microscopy:

IraZolve-L1™ can be excited by UV (~ 365 nm) or blue light (405 nm) sources with emissions collected using a wideband pass filter, or narrowband pass filter with an emission range of 550-650 nm.

Confocal or two-photon Microscopy:

IraZolve-L1™ can be excited by a 400 nm steady state laser, or 800-830 nm using a two-photon pulse laser. Ideally image with a spectral detector set for the emission of IraZolve-L1™, 490-670 nm (E_{max} = 600 nm). Alternatively detect by using an emission detector suited to the detection of red fluorophores.

Note: Time gated imaging can be performed with these products and is ideal for samples with a high level of endogenous fluorescence. Probe emission lifetime is ~30 microseconds.

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