

Product Information

CF™647, Hydrazide

Catalog Number **SCJ4600046**

Storage Temperature –20 °C

TECHNICAL BULLETIN

Product Description

CF™647, hydrazide can be used as a fixable polar tracer for visualizing cell morphology, or for labeling biomolecules with an aldehyde or ketone group (such as carbohydrate molecules after peroxidation with periodate).

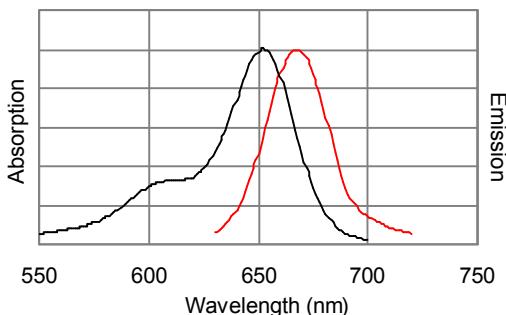
CF647 is a cyanine-based far-red fluorescent dye spectrally similar to Cy™5 and Alexa Fluor® 647. CF647 also has comparable brightness and photostability as Cy5 and Alexa Fluor 647.

CF647 dye properties:

Abs/Em Maxima: 650/665 nm (See Figure 1)
Extinction coefficient: 240,000
Molecular weight: ~3,000
 A_{280}/A_{max} or CF (correction factor for estimating degree of protein labeling):0.03
Flow cytometry laser line: 633, 635, or 640 nm
Microscopy laser line: 633, 635, or 640 nm
Direct replacement for: Alexa Fluor 647, Cy5, DyLight® 649, and IRDye® 650

Figure 1.

Absorption and emission spectra of CF647 conjugated to goat anti-mouse IgG in PBS.



Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

Stock solutions may be prepared in water or PBS. Stock solutions may be stored at –20 °C for at least 6 months.

Storage/Stability

Store the dye desiccated at –20 °C. When stored as directed, the dye should remain active for at least 6 months.

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IRDye is a registered trademark of Li-COR Biosciences.

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