

Product Information

CF™568 hydrazide

Catalog Number: 92154

Unit Size: 1 mg

Color and Form: Dark red solid.

Storage and Handling

Store CF™568 hydrazide at $\leq -20^{\circ}\text{C}$. Stock solution may be prepared in PBS or Di-H₂O and can be stored at $\leq -20^{\circ}\text{C}$. The shelf-life of the solution is at least 6 months.

Technical Summary

Abs/Em Maxima: 562/583 nm (See Figure 1)

Extinction coefficient: 100,000

Molecular weight: ~700

Flow cytometry laser line: 532 or 568 nm

Microscopy laser line: 532 or 568 nm

Product Application

CF™568 hydrazide is a red dye with hydrazide group. The dye can be used as a polar tracer or for labeling biomolecules with an aldehyde or ketone group (such as carbohydrate molecules after peroxidation with periodate). CF568 hydrazide can be used as a fixable fluorescent polar tracer for visualizing neuronal cell morphology. CF™568 dye is much brighter and more photostable than Alexa Fluor® 568, making it the best red dye for fluorescence detection using the 568 nm excitation line of the Ar-Kr mixed-gas laser.

Our CF™ hydrazides are bright, extremely water-soluble and nontoxic. These properties make the dye an excellent fluorescent tracer for visualizing the fine structures of neurons by staining the cytoplasm of the cells (Figure 2). The dye can be introduced into cells by microinjection.

*CF™ dye technology is covered by pending US and international patents.

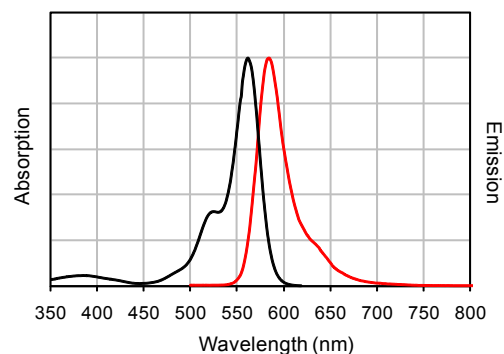


Figure 1. Absorption and emission spectra of CF™568 in PBS.

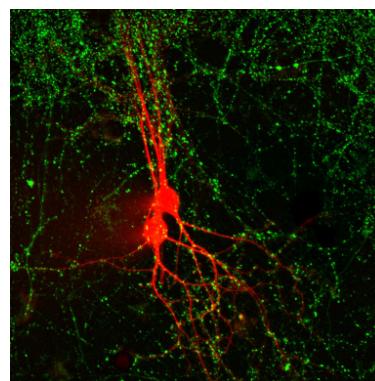


Figure 2. Rat hippocampal neurons stained with SynptoGreen C4 (also called FM1-43, cat# 70020) and CF647 hydrazide (cat# 92136). SynptoGreen C4 stains synaptic vesicles (green) while CF647 hydrazide stains the cell bodies (red). Courtesy of Hang Zhou from professor Guosong Liu's lab in Tsinghua University.

Other Related Products

You may also be interested in the following related products from Biotium:

- A full selection CF™ dyes and CF™ antibody conjugates
- CF™ dye-labeled α -bungarotoxin conjugates
- FM and AM nerve terminal dyes (e.g., FM1-43, AM1-43 and FM4-64, etc.)
- TTX
- Fluo-3 and other calcium indicators
- Membrane potential dyes

Please visit the Biotium website at www.biotium.com for details.