Biotium
Glowing Products for Science™

コスモ・バイオ株式会社

3159 Corporate Place
Hayward, CA 94545
www.biotium.com

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Product Information

CF™488A hydrazide

Catalog Number: 92152

Unit Size: 1 mg

Color and Form: Yellow solid.

Storage and Handling

Store CF™488A hydrazide at ≤ -20°C. Stock solution may be prepared in PBS or Di-H2O and can be stored at ≤ -20°C. The shelf-life of the solution is at least 6 months.

Technical Summary

Abs/Em Maxima: 490/515 nm (See Figure 1)
Extinction coefficient: 70,000
Molecular weight: ~910
Flow cytometry laser line: 488 nm
Microscopy laser line: 488 nm

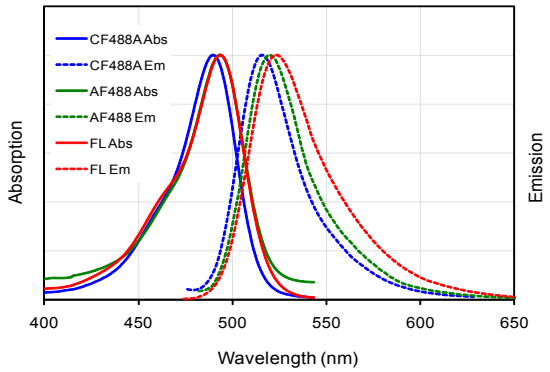

Figure 1. Absorption and emission spectra of CF™488A, Alexa Fluor® 488 and FITC in PBS.

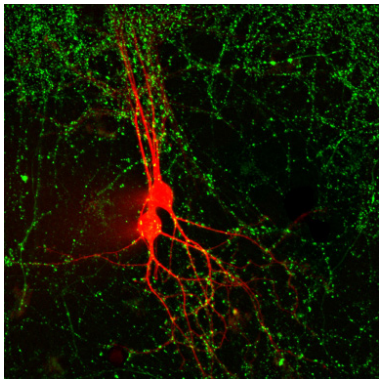

Figure 2. Rat hippocampal neurons stained with SynaptoGreen C4 (also called FM1-43, cat# 70020) and CF647 hydrazide (cat# 92136). SynaptoGreen C4 stains synaptic vesicles (green) while CF647 hydrazide stains the cell bodies (red). Courtesy of Hang Zhou from professor Guosong Liu's lab in Tshinghua University.

Product Application

CF™488A hydrazide is a green 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). CF488A hydrazide can be used as a fixable fluorescent polar tracer for visualizing neuronal cell morphology. CF™488A dye is bright and photostable, making it a great dye for multicolor imaging or fluorescence detection using 488 nm excitation

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.

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.