

## Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits



### Product attributes

Label your antibody with one of our CF® Dyes specialized for STORM super-resolution microscopy. Labeling takes just 30 minutes without a purification step, and yields an antibody conjugate with a low degree of labeling optimal for STORM.

### Product Description

Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits allow you to label 50 ug of your antibody with one of Biotium's STORM CF® Dyes to produce an antibody conjugate with a low 1-2.5 DOL (degree of labeling) optimal for super-resolution STORM (Stochastic Optical Reconstruction Microscopy). Labeling takes just 30 minutes, with minimal hands-on time and no purification.

### Superior CF® Dyes for STORM Imaging

These kits feature a choice of 8 CF® Dyes developed with superior brightness and unique photoswitching properties that are ideal for super-resolution imaging by STORM. In addition, these specialized Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits are designed to offer a low degree of labeling (DOL, or dye molecules per antibody molecule) of 1-2.5, which is reported to be optimal for STORM (1). Learn more about [CF® Dyes for STORM](#) or our [other fluorescent reagents validated for super-resolution microscopy](#).

### Discover More with Green-Excitable CF® Dyes Developed for Multi-Color STORM

High-quality STORM imaging relies heavily on bright fluorescent dyes with excellent photoswitching properties. While there are several commonly used red-excited dyes suitable for STORM imaging such as CF®647, CF®660C and CF®680, generating comparable dyes for other excitation sources to produce quality multi-color STORM images remains a challenge. Biotium scientists have met this challenge by developing novel chemical modifications for green-excited fluorescent dyes to offer optimal performance for STORM super-resolution imaging. This includes CF®583R and CF®597R which were developed specifically for STORM imaging and display exceptional performance for multi-color STORM (2).

See the product table below for a quick reference of the maximum excitation and emission of each CF® Dye. Select the links in the Dye Features column to learn more about each CF® Dye and potential applications.

### Other Labeling Kits

We now offer [Mix-n-Stain™ Maxi Antibody Labeling Kits](#) for labeling 1 mg of antibody with CF® Dyes, and [Mix-n-Stain™ Nanobody Labeling Kits](#). Mix-n-Stain™ kits also are available for labeling antibodies biotin, DNP, or DIG. See our full selection of [Mix-n-Stain™ Antibody Labeling Kits](#).

## Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits

Conjugation	Ex/Em	Size	Catalog No.	Dye Features
<a href="#">CF@505</a>	505/519 nm	50 ug	<a href="#">92549</a>	
<a href="#">CF@568</a>	562/584 nm	50 ug	<a href="#">92550</a>	<a href="#">CF@568 Features</a>
<a href="#">CF@583R</a>	585/609 nm	50 ug	<a href="#">92551</a>	<a href="#">CF@583R Features</a>
<a href="#">CF@597R</a>	597/619 nm	50 ug	<a href="#">92553</a>	<a href="#">CF@597R Features</a>
<a href="#">CF@647</a>	652/668 nm	50 ug	<a href="#">92554</a>	<a href="#">CF@647 Features</a>
<a href="#">CF@660C</a>	667/685 nm	50 ug	<a href="#">92555</a>	<a href="#">CF@660C Features</a>
<a href="#">CF@680</a>	681/698 nm	50 ug	<a href="#">92556</a>	<a href="#">CF@680 Features</a>
<a href="#">CF@750</a>	755/779 nm	50 ug	<a href="#">92557</a>	<a href="#">CF@750 Features</a>

## Antibody & Protein Labeling Kits

Product Name	Label Options	Labeling Scale	Labeling Time	Features
<a href="#">Mix-n-Stain™ CF® Dye Antibody Labeling Kits</a>	CF® Dyes	≤5-20 ug IgG 20-50 ug IgG 50-100 ug IgG	~ 15 min.	<ul style="list-style-type: none"> <li>• Rapid, simple labeling</li> <li>• No purification</li> <li>• Tolerates BSA &amp; other additives</li> <li>• Dyes for super-resolution, spectral flow, &amp; NIR detection</li> </ul>

Product Name	Label Options	Labeling Scale	Labeling Time	Features
<a href="#">Mix-n-Stain™ FITC Antibody Labeling Kits</a>	FITC			
<a href="#">Mix-n-Stain™ Cyanine Dye Antibody Labeling Kits</a>	Cyanine 555 Cyanine 647			
<a href="#">Mix-n-Stain™ Biotin Antibody Labeling Kits</a>	Biotin			
<a href="#">Mix-n-Stain™ Digoxigenin Antibody Labeling Kits</a>	Digoxigenin (DIG)			
<a href="#">Mix-n-Stain™ DNP Antibody Labeling Kits</a>	DNP			
<a href="#">Mix-n-Stain™ Maxi Antibody Labeling Kits</a>	CF® Dyes Cyanine Dyes	1 mg IgG	~ 30 min.	
<a href="#">Mix-n-Stain™ CF® Dye IgM Antibody Labeling Kits</a>	CF® Dyes FITC	25 ug IgM 100 ug IgM	15-30 min.	<ul style="list-style-type: none"> <li>• Rapid, simple labeling</li> <li>• No purification</li> </ul>
<a href="#">Mix-n-Stain™ STORM CF® Dye Antibody Labeling Kits</a>	CF® Dyes	50 ug IgG	~ 30 min.	<ul style="list-style-type: none"> <li>• Optimized to provide low 1-2.5 DOL</li> <li>• No purification</li> </ul>
<a href="#">Mix-n-Stain™ Nanobody Labeling Kits</a>	CF® Dyes	5-20 ug Nanobody® 20-50 ug Nanobody®	~ 30 min.	<ul style="list-style-type: none"> <li>• Optimized for Nanobodies®</li> <li>• Tolerates BSA &amp; other additives</li> </ul>
<a href="#">Mix-n-Stain™ Small Ligand Labeling Kits</a>	CF® Dyes	0.1 umol small ligand	~ 30 min.	<ul style="list-style-type: none"> <li>• Label SNAP®, CLIP™, HaloTag® &amp; other small ligands</li> <li>• Dye options for surface or intracellular targets</li> </ul>
<a href="#">VivoBrite™ Rapid Antibody Labeling Kits for Small Animal In Vivo Imaging</a>	Near-IR CF® Dyes	3 x 1 mg IgG	~ 2 hours	<ul style="list-style-type: none"> <li>• Dyes, buffers, &amp; spin vials for labeling + purification</li> <li>• Sterile syringes, filters and storage vials for in vivo use</li> </ul>
<a href="#">CF® Dye &amp; Biotin SE Protein Labeling Kits</a>	CF® Dyes Biotin	3 x 1 mg protein	~ 2 hours	<ul style="list-style-type: none"> <li>• Dyes, buffers, &amp; spin vials for labeling + purification</li> </ul>

CF is a registered trademark of Biotium, Inc.

## References

1. Proc. SPIE 9331, (2015), DOI: [10.1117/12.2083209](https://doi.org/10.1117/12.2083209)
2. Angew. Chem. Int. Ed. 9331, e202113612, (2021), DOI: [10.1002/anie.202113612](https://doi.org/10.1002/anie.202113612)

Download a list of [Mix-n-Stain™ references](#).

Download a list of [CF® Dye references](#).

This datasheet was generated on May 9, 2026 at 10:15:43 AM. Visit product page to check for updated information before use.

Product link: <https://biotium-woo.supremeclients.com/product/mix-n-stain-storm-cf-dye-antibody-labeling-kits/>