biotium Glowing products for science

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CF® Dye Azide

CF® Dyes with an azide group. Can be used to label or detect alkyne, BCN or cyclooctyne-containing molecules by fluorescence spectroscopy, microscopy or flow cytometry following copper-catalyzed azide-alkyne cycloaddition.



Product attributes

Chemical reactivity (reacts with)	Alkynes, BCN
Functional group	Azide
Storage Conditions	Store at -10 to -35 °C, Protect from light

Product Description

CF® Dye azide can react with terminal alkynes to form 1,2,3-triazole via copper-catalyzed cycloaddition. They can also undergo Staudinger ligation with a phosphine containing compounds. The azide derivatives also react with cyclooctynes and BCN groups via copper-free bioorthogonal reaction.

- Fluorescent detection or labeling of alkyne, BCN or cyclooctyne groups on target molecules.
- Bright, photostable and water-soluble CF® Dyes are excellent options for fluorescent labeling.

Superior CF® Dyes
CF® Dyes are Biotium's line of next-generation fluorescent dyes that have improved brightness, photostability and water solubility compared to Alexa Fluor®, DyLight®, and other fluorescent dyes.

Learn more about CF® Dyes. For more information download the CF® Dye Brochure.

We also offer CF® Dye Picolyl Azide derivatives for azide-alkyne cycloaddition reactions at lower copper concentrations, suitable for labeling live cells or other copper-sensitive systems.

CF® Dye Azide

CF® Dye Azide	Ex/Em	Size	Catalog No.	Dye Features
CF®405M	408/452 nm	0.5 mg	92092	CF®405M Features
CF®488A	490/515 nm	0.5 mg	92080	CF®488A Features
CF®532	527/558 nm	0.5 mg	92180	CF®532 Features
CF®543	541/560 nm	0.5 mg	92181	CF®543 Features
CF®555	555/565 nm	0.5 mg	92081	CF®555 Features
CF®568	562/583 nm	0.5 mg	92082	CF®568 Features
CF®594	593/614 nm	0.5 mg	92083	CF®594 Features
CF®640R	642/662 nm	0.5 mg	92085	CF®640R Features
CF®647	650/665 nm	0.5 mg	92084	CF®647 Features
CF®660R	663/682 nm	0.5 mg	92182	CF®660R Features
CF®660C	667/685 nm	0.5 mg	92094	CF®660C Features
CF®680	681/698 nm	0.5 mg	92119	CF®680 Features
CF®680R	680/701 nm	0.5 mg	96000	CF®680R Features

References

Nat Protocols (2017) 12(5), 1011-1028. doi: 10.1038/nprot.2017.020 (CF®405M azide, CF®568 azide, SIM)

Download a list of CF® dye references.