biotium Glowing products for science

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CF® Dye Methyltetrazine

CF® Dye with methyltetrazine reacts with cyclooctene (TCO, methylcyclopropene) labeled molecules via copper-free click chemistry.

Product attributes

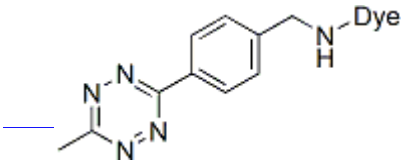
Chemical reactivity (reacts with)	Cyclooctene (TCO, methylcyclopropene) groups
Functional group	Tetrazine/Methyltetrazine
Storage Conditions	Store at -10 to -35 °C, Protect from light

Product Description

CF® Dye with a methyltetrazine group react with cyclooctene (TCO, methylcyclopropene) containing molecules via copper-free click chemistry. This copper-free bioorthogonal reaction is useful for labeling live cells, or when there are concerns about native protein function loss with copper in cell extracts. Membrane-permeant CF® Dye methyltetrazine options are also available for intracellular labeling reactions.

Available CF® Dye methyltetrazine derivatives: CF®488A, CF®532, CF®555, CF®568, CF®594, CF®640R, CF®647, CF®680, and CF®680R including membrane-permeant CF®500, and CF®650 methyltetrazine.

- Fluorescent labeling of cyclooctene (TCO, methylcyclopropene) groups on target molecules via copper-free bioorthonal chemistry.
- Membrane-impermeant and membrane-permeant forms for surface or intracellular labeling of live cells or cell extracts.
- Bright, photostable and water-soluble CF® Dyes are excellent options for fluorescent labeling.



CF® Dye methyltetrazines have improved chemical stability compared to CF® Dye tetrazines. We also offer CF® Dye TCO.

Superior CF® Dyes

Biotium's next-generation CF® Dyes were designed to be highly water-soluble with advantages in brightness and photostability compared to Alexa Fluor®, DyLight®, and other fluorescent dyes. Learn more about CF® Dyes. For more information download the CF® Dye Brochure.

CF Dye Methyltetrazine: Product & SKU Summary

Product	Conjugation	Ex/Em	Size	SKU	Purchase
CF®488A Methyltetrazine	CF®488A	490/515 nm	1 mg	96028	Purchase 96028
CF®500 Methyltetrazine	CF®500	500/510 nm	1 mg	96029	Purchase 96029
CF®532 Methyltetrazine	CF®532	527/558 nm	1 mg	96030	Purchase 96030
CF®555 Methyltetrazine	CF®555	555/565 nm	1 mg	96031	Purchase 96031
CF®568 Methyltetrazine	CF®568	562/583 nm	1 mg	96032	Purchase 96032
CF®594 Methyltetrazine	CF®594	593/614 nm	1 mg	96033	Purchase 96033
CF®640R Methyltetrazine	CF®640R	642/662 nm	1 mg	96034	Purchase 96034
CF®647 Methyltetrazine	CF®647	650/665 nm	1 mg	96035	Purchase 96035
CF®650 Methyltetrazine	CF®650	650/670 nm	1 mg	96036	Purchase 96036
CF®680 Methyltetrazine	CF®680	681/698 nm	1 mg	96039	Purchase 96039
CF®680R Methyltetrazine	CF®680R	680/701 nm	1 mg	96037	Purchase 96037