

DOMINIQUE DUTSCHER SAS

CyDye™ Mono-Reactive NHS Ester Fluorescent Dyes

CyDye Mono-Reactive NHS Ester Fluorescent Dyes are intensely fluorescent and highly water soluble, providing significant advantages over other existing fluorophores.

Overview

CyDye Mono-Reactive NHS Ester Fluorescent Dyes are intensely fluorescent and highly water soluble, providing significant advantages over other existing fluorophores.

- Store refrigerated at 2–8°C in the dark.
- Reconstitute the material to 1 mg/mL in anhydrous DMF/DMSO. Reconstituted material may be stored for up to 2 weeks at -200°C in aliquots to avoid repeat freeze thaw cycles.
- The CyDye supplied here are monofunctional NHS esters, and are provided in a dried, pre-measured form ready for the labeling of compounds containing free amino groups.

When labeling antibodies or other proteins with NHS esters, the optimum conditions have to be established experimentally. The extent of labeling to give maximum fluorescence between the different CyDye vary and should be taken into account it will be necessary to optimise the ratio of CyDye NHS ester to protein and pH to give the final dye to protein (D/P) ratio that is required.

Product specifications

Amersham Cy3B NHS Ester fluorescent dye, 5 mg

Catalog code	PA63100
Wavelength of Excitation	559 nm
Wavelength of Emission	570 nm
Absorbance	559 nm
Emission Max.	570 nm
Extinction Coefficient in Methanol Max.	130000 $M^{-1}cm^{-1}$
Quantum Yield in Methanol	> 0.7
Fluorescence Lifetime	~ 2.8 ns
Fluorescence Quantum Yield	> 0.67
Formula Weight	771
Photostability	<10% photobleached over 60 s
pH Sensitivity	Minimal
Purity	> 99%
Physical State	Solid
Color	Red
Reagent type	Fluorescent Labeling Reagents

Amersham Cy3B NHS Ester fluorescent dye, 1 mg

Catalog code	PA63101
Wavelength of Excitation	559 nm
Wavelength of Emission	570 nm
Absorbance	559 nm
Emission Max.	570 nm
Extinction Coefficient in Methanol Max.	130000 $M^{-1}cm^{-1}$
Quantum Yield in Methanol	> 0.7
Fluorescence Lifetime	~ 2.8 ns
Fluorescence Quantum Yield	> 0.67
Formula Weight	771
Photostability	<10% photobleached over 60 s
pH Sensitivity	Minimal
Purity	> 99%
Physical State	Solid
Color	Red
Reagent type	Fluorescent Labeling Reagents

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Amersham Cy3B NHS Ester fluorescent dye, 25 mg

Catalog code	PA63106
Order Information	Product is made to order, please inquire.
Wavelength of Excitation	559 nm
Wavelength of Emission	570 nm
Absorbance	559 nm
Emission Max.	570 nm
Extinction Coefficient in Methanol Max.	130000 $M^{-1}cm^{-1}$
Quantum Yield in Methanol	> 0.7
Fluorescence Lifetime	~ 2.8 ns
Fluorescence Quantum Yield	> 0.67
Formula Weight	771
Photostability	<10% photobleached over 60 s
pH Sensitivity	Minimal
Purity	> 99%
Physical State	Solid
Color	Red
Reagent type	Fluorescent Labeling Reagents

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