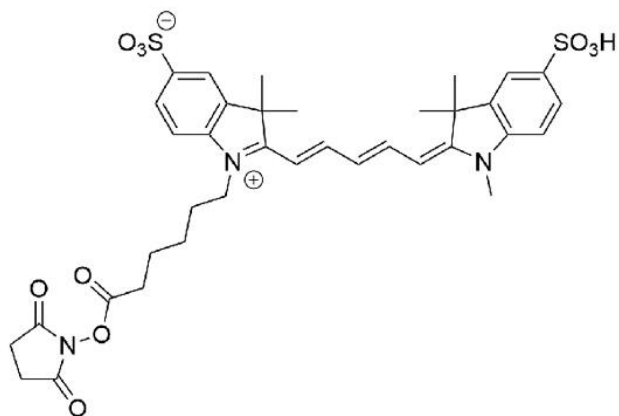




CY5 NHS ESTER

SKU: FP-1321



DESCRIPTION

633/647



Laser
line

Cy5



Common
filter set

650



Excitation
max

665



Emission
max

Cy5 dye (also sold under Sulfo-Cyanine5 name) is one of the most popular far-red fluorescent dyes. It is often a reagent of choice for protein and peptide labeling. Cy5 dye is a water-soluble, bright, far-red-fluorescent dye with excitation ideally suited for the 633 nm or 647 nm laser lines. Cy5 conjugates of antibodies, peptides, and proteins are pH insensitive from pH 4 to pH 10. A significant advantage to using long wavelength dyes such as Cy5 or AF 647 dye over other fluorophores is the low autofluorescence of biological specimens in this region of the spectrum.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



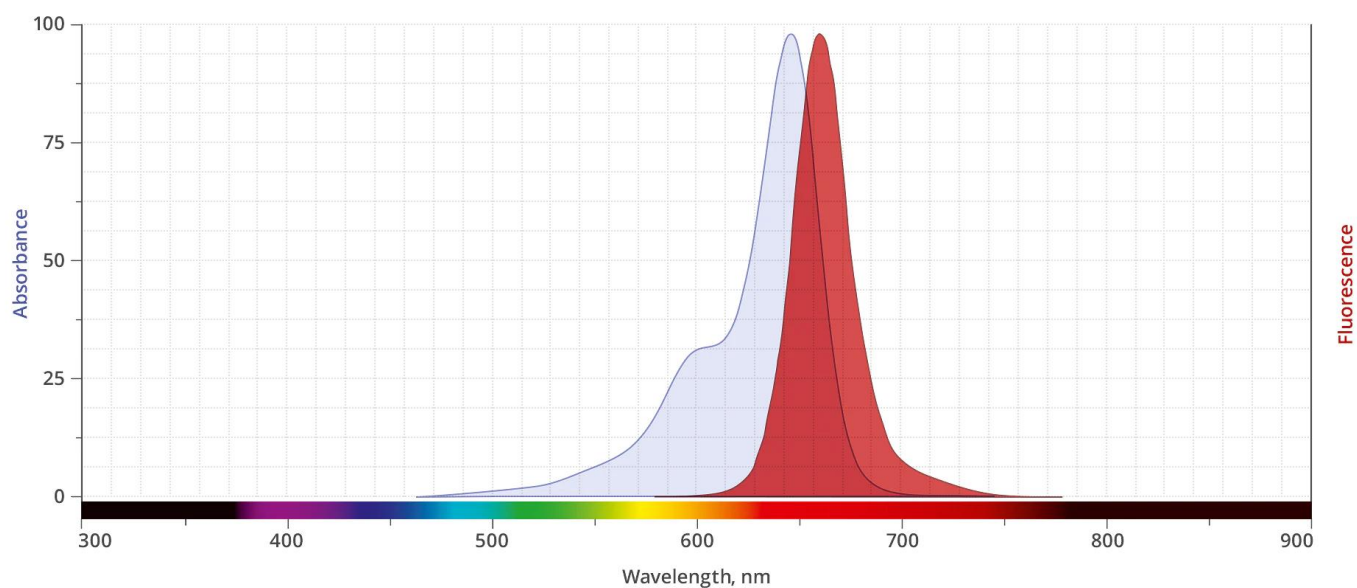
The NHS ester (or succinimidyl ester) is the most popular amine reactive group for labeling with the primary amines of proteins (Lys), amine-modified oligonucleotides, and other amine-containing molecules. We do not recommend using Cy5 NHS ester for labeling proteins at high molar ratios due to significant self-quenching. Cy5 conjugates are recommended for detection of moderate-to-high abundance targets. For detection of low-abundance biological targets we recommend using AZDye 647 (Alexa Fluor® 647 analog), or IR 650 dye (IRDye® 650 analog), which can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection.

SPECIFICATIONS

Molecular Weight	739.86
Extinction Coefficient	250,000 cm ⁻¹ M ⁻¹
Reactivity	Primary amine
Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C.
Spectrally Similar Dyes	Alexa Fluor® 647, DyLight® 649
Excitation/Emission Maximum	648/671 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

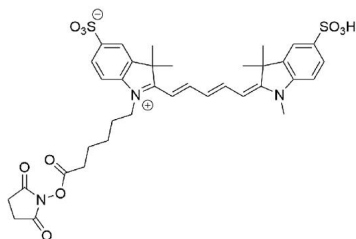
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DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

GALLERY IMAGES



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