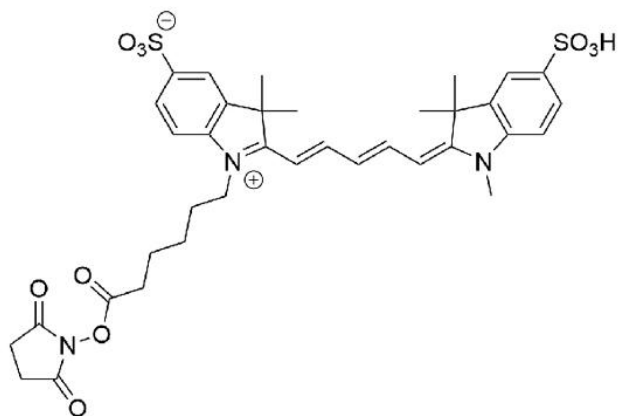




CY5 NHS ESTER

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.

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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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