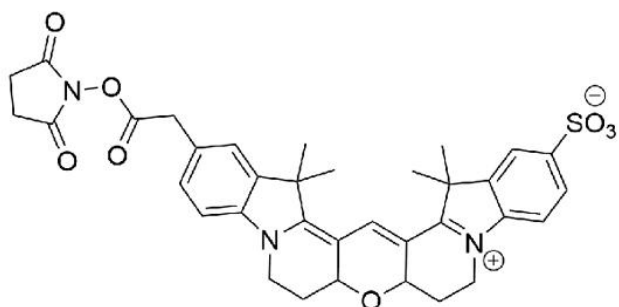


## CY3B NHS ESTER

SKU: FP-1831



### Description

633/647



Laser  
line

Cy5.5



Common  
filter set

673



Excitation  
max

694



Emission  
max

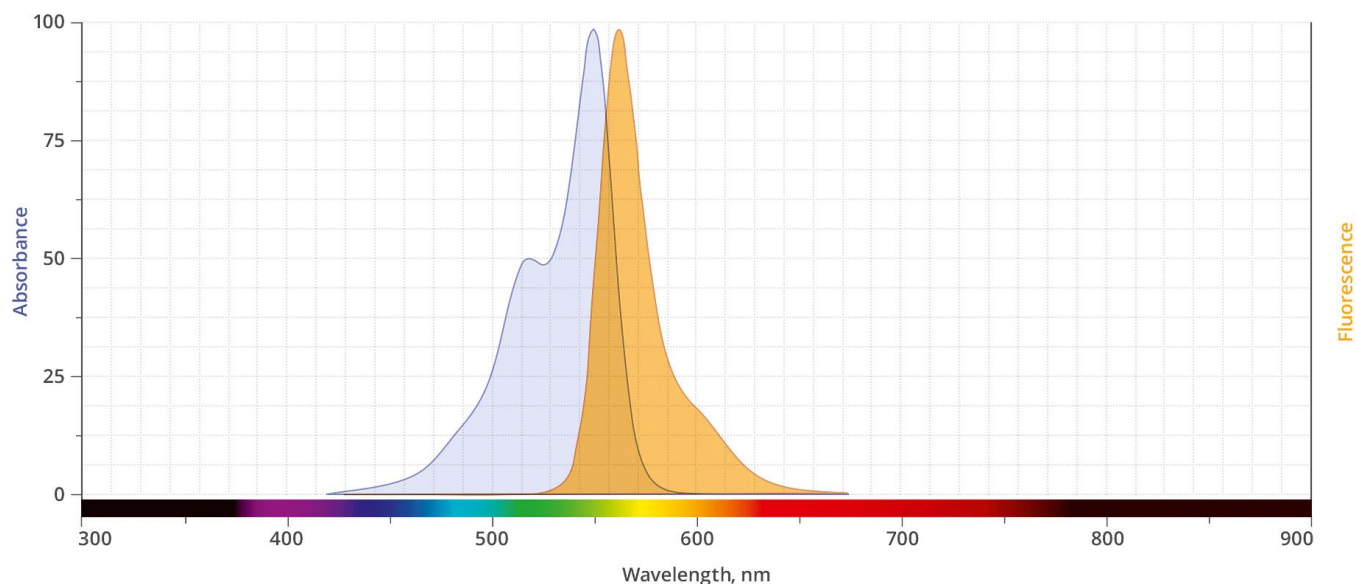
Cy3B NHS Ester is an improved version of Cy3 dyes with significantly increased fluorescence quantum yield and photostability. Cy3B Dye is a bright, water-soluble, and pH insensitive from pH 4 to pH 10 orange-fluorescent dye. Cy3B conjugates of antibodies, peptides, and proteins can be excited using the 532 nm or 555 nm laser line and visualized with TRITC (tetramethylrhodamine) filter sets. Cy3 conjugates give less background than TAMRA and most other commonly used fluorescent dyes.

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. Cy3 NHS ester is not recommended for labeling proteins at high molar ratios due to significant self-quenching, and only recommended for detection of moderate-to-high abundance targets. For detection of low-abundance biological targets we recommend

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using AZDye 555 NHS Ester (Alexa Fluor® 555 analog), which can be attached to proteins at high molar ratios without significant self-quenching, enabling brighter conjugates and more sensitive detection.

## Abs/Em Spectra



## Specifications

<b>Unit Size</b>	1 mg, 5 mg, 25 mg, 100 mg
<b>Reactivity</b>	Primary amine
<b>Abs/Em Maxima</b>	560/571 nm
<b>Extinction coefficient</b>	120,000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Solubility</b>	Water, DMSO, DMF
<b>Spectrally similar dyes</b>	Cy3, DyLight® 555, Alexa Fluor® 555
<b>Molecular weight</b>	657.21
<b>Storage Conditions</b>	-20°C.
<b>Shipping Conditions</b>	Ambient temperature

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