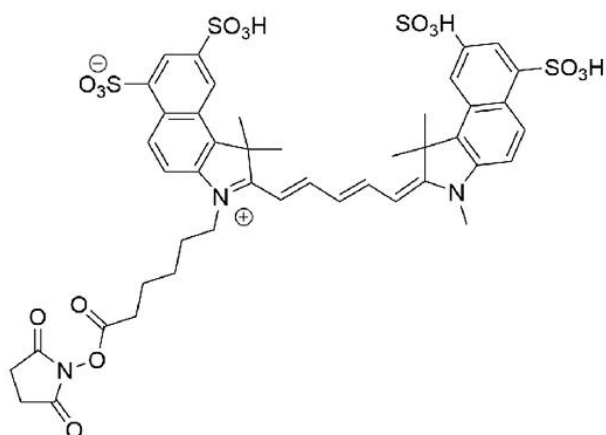




## **CY5.5 NHS ESTER**

**SKU:** FP-1341



## **DESCRIPTION**

**633/647**



Laser  
line

**Cy5.5**



Common  
filter set

**673**



Excitation  
max

**694**



Emission  
max

Cy5.5 NHS Ester (also sold under sulfo-Cyanine5.5 NHS Ester name) is a bright and photostable near-IR dye that is spectrally similar to Alexa Fluor® 680, DyLight® 680, and IRDye® 680 dye. Cy5.5 NHS Ester is completely water-soluble and often a reagent of choice for labeling antibodies, peptides, and proteins that are sensitive toward organic co-solvents. Cy5.5 conjugates are pH insensitive from pH 4 to pH 10 and produce minimal autofluorescence of

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



biological specimens in this region of the spectrum. Fluorescence of this long-wavelength Cyanine dye is not visible to the human eye but is readily detected by most imaging systems.

The NHS ester (succinimidyl ester) of Cy5.5 is the most popular tool for conjugating this dye to a protein or antibody. NHS esters can be used to label to the primary amines (R-NH<sub>2</sub>) of proteins, amine-modified oligonucleotides, and other amine-containing molecules.

## SPECIFICATIONS

|                                    |                                                                               |
|------------------------------------|-------------------------------------------------------------------------------|
| <b>Molecular Weight</b>            | 1303.67                                                                       |
| <b>Molecular Formula</b>           | C <sub>62</sub> H <sub>90</sub> N <sub>6</sub> O <sub>16</sub> S <sub>4</sub> |
| <b>Chemical Formula</b>            | C <sub>62</sub> H <sub>90</sub> N <sub>6</sub> O <sub>16</sub> S <sub>4</sub> |
| <b>Extinction Coefficient</b>      | 190,000 cm <sup>-1</sup> M <sup>-1</sup>                                      |
| <b>Reactivity</b>                  | Primary amine                                                                 |
| <b>Unit Size</b>                   | 1 mg, 5 mg, 25 mg, 100 mg                                                     |
| <b>Solubility</b>                  | Water, DMSO, DMF                                                              |
| <b>Storage Instructions</b>        | -20°C.                                                                        |
| <b>Spectrally Similar Dyes</b>     | Alexa Fluor® 680, DyLight® 680, IRDye® 680                                    |
| <b>Excitation/Emission Maximum</b> | 675 nm / 694 nm                                                               |
| <b>Shipping Conditions</b>         | Ambient temperature                                                           |
| <b>Shipping Instructions</b>       | Ambient temperature                                                           |

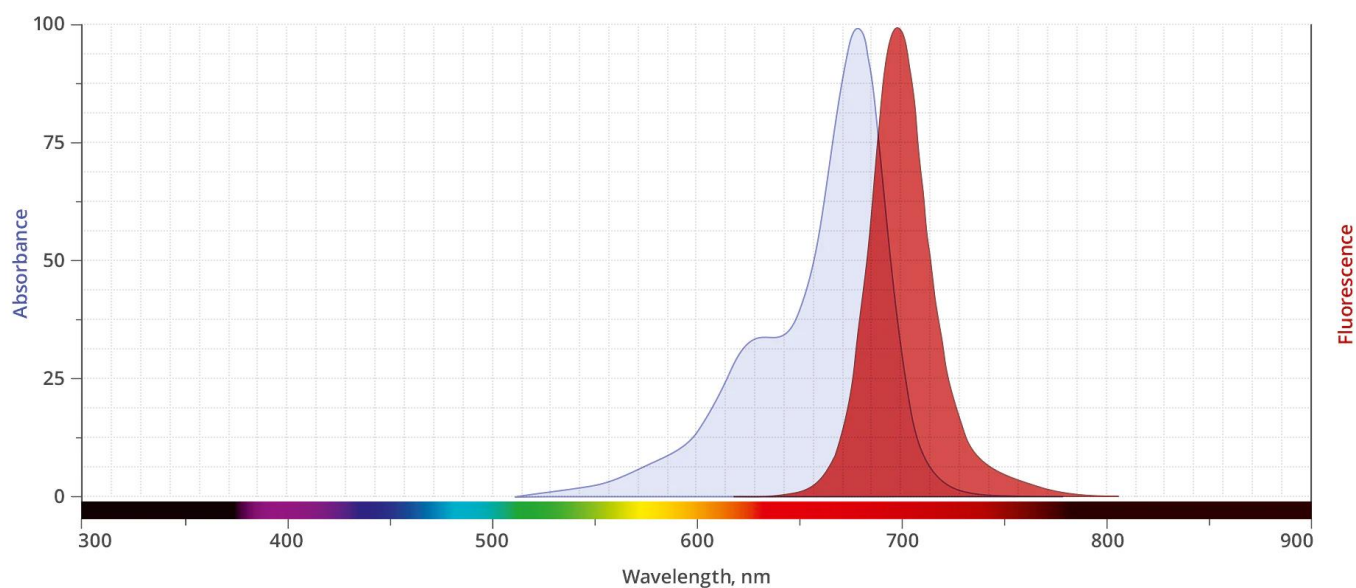
## ABS/EM SPECTRA

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

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Cy5.5 NHS Ester

<https://vectorlabs.com/products/cy5-5-nhs-ester/>