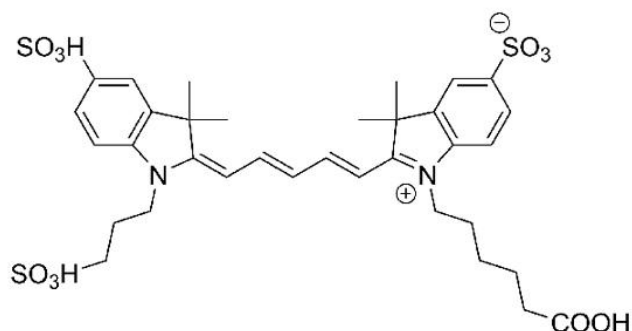


SULFO-CY5 ACID

SKU: FP-1674



Description

633/647



Laser
line

Cy5



Common
filter set

650



Excitation
max

665



Emission
max

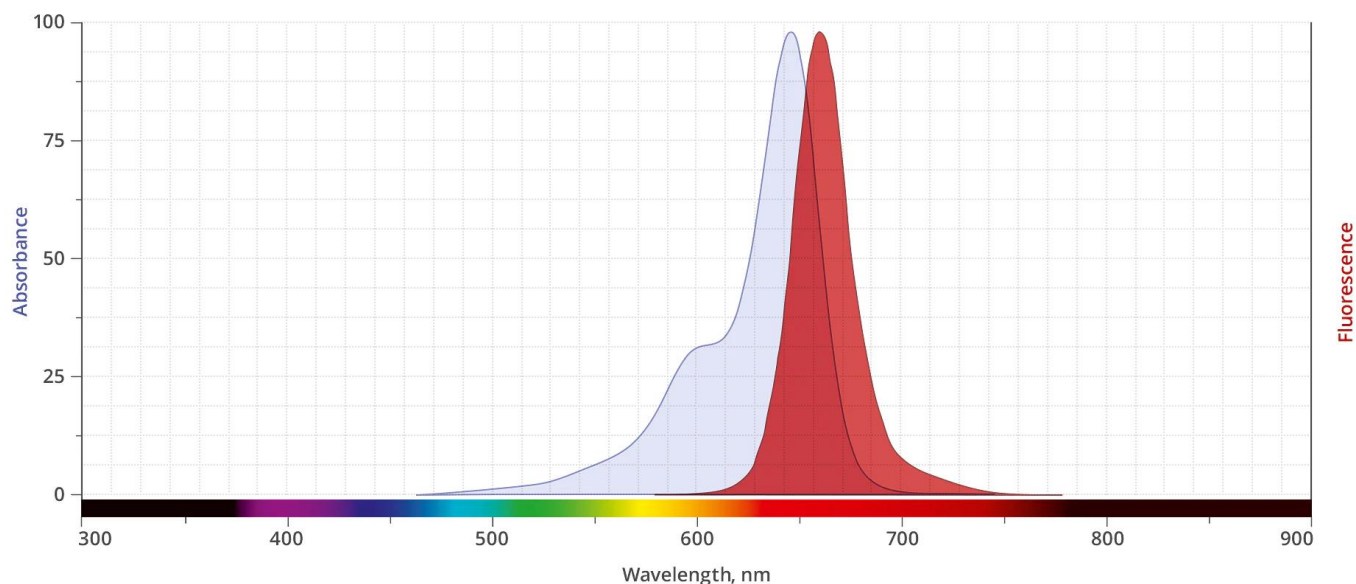
Sulfo-Cy5 dye is one of the most popular far-red fluorescent dyes. It is often a reagent of choice for protein and peptide labeling. Sulfo-Cy5 dye is a water-soluble, bright, far-red-fluorescent dye with excitation ideally suited for the 633 nm or 647 nm laser lines. Sulfo-Cy5 conjugates of antibodies, 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.

The carboxylic acid of Sulfo Cy5 dye is a reagent of choice for the preparation of custom activated esters that often are not commercially available. Examples of such activated esters include sulfo-NHS, TFP (2,3,5,6-Tetrafluorophenol), STP (4-Sulfo-2,3,5,6-Tetrafluorophenol, Sodium Salt). Another common application for non-activated carboxylic acid is peptide modification during solid phase synthesis, which usually requires in-situ activation with peptide

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coupling reagents, for example HATU. Cy5 Acid is also often used for control experiments, and for calibration.

Abs/Em Spectra



Specifications

Unit Size	5 mg, 25 mg, 100 mg
Reactivity	Primary amine
Abs/Em Maxima	648/671 nm
Extinction coefficient	250,000 cm ⁻¹ M ⁻¹
Solubility	Water, DMSO, DMF
Spectrally similar dyes	Alexa Fluor® 647, DyLight® 649,
Molecular weight	750.89
Storage Conditions	-20°C.
Shipping Conditions	Ambient temperature

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