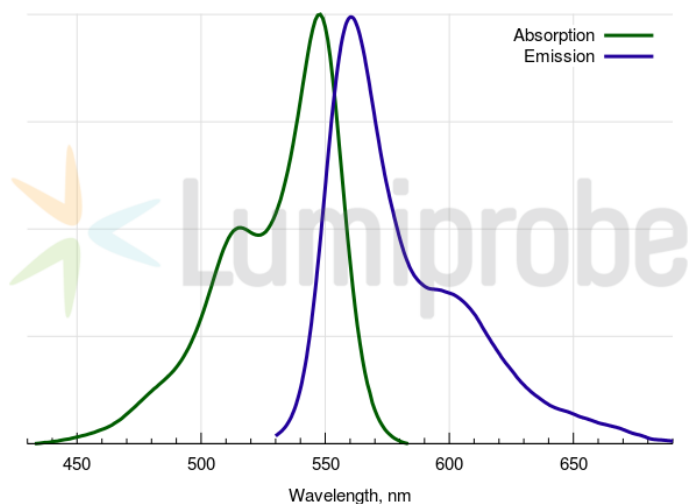


## sulfo-Cyanine3-PEG3-biotin

<http://www.lumiprobe.com/p/sulfo-cyanine3-biotin>

This fluorescent conjugate is useful for streptavidin-based fluorescent assays and visualization of the streptavidin/avidin-labeled biomolecules. Streptavidin, a protein with a high affinity to biotin, has four binding centers for biotin. The high stability of biotin/streptavidin complex gives the opportunity to build different kinds of assays. For example, a target molecule with affinity to the surface can be conjugated with biotin and immobilized on a solid surface. After it, streptavidin can be bound to the biotinylated surface and washed. Then, bound streptavidin on the surface can be visualized with the biotin-dye conjugate.

The long and hydrophilic PEG3 linker facilitates binding and decreases nonspecific interactions.



**Absorption and emission spectra of sulfo-Cyanine3**

### General properties

Appearance:	dark colored solid
Molecular weight:	1011.32
Molecular formula:	$C_{46}H_{63}N_6KO_{11}S_3$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR $^1H$ , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.
Legal statement:	This Product is offered and sold for research purposes only. It has not been tested for safety and efficacy in food, drug, medical device, cosmetic, commercial or any other use. Supply does not express or imply authorization to use for any other purpose, including, without limitation, in vitro diagnostic purposes, in the manufacture of food or pharmaceutical products, in medical devices or in cosmetic products.

### Spectral properties

Excitation/absorption maximum, nm:	548
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
$CF_{260}$ :	0.03
$CF_{280}$ :	0.06