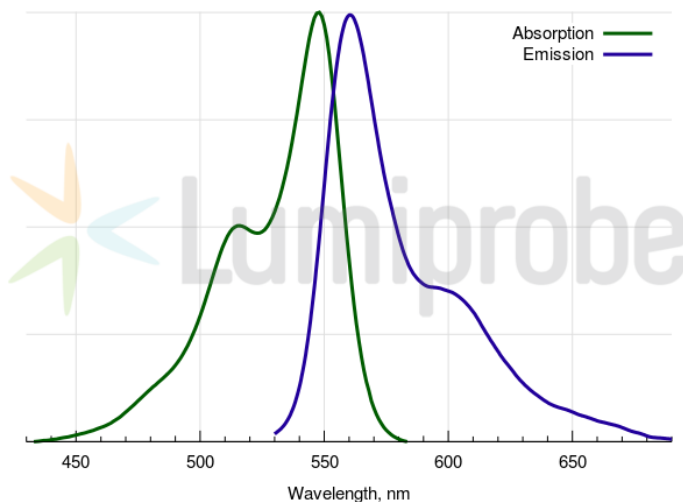


sulfo-Cyanine3-PEG3-biotin

<http://de.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.



Allgemeine Eigenschaften

Erscheinungsform:	farbloser Feststoff
Molekülmasse:	1011.32
Molekülformel:	$C_{46}H_{63}N_6KO_{11}S_3$
Löslichkeit:	
Qualitätskontrolle:	NMR 1H , HPLC-MS (95%)
Lagerungsbedingungen:	Lagerung: 24 Monate nach Wareneingang bei $-20\text{ }^\circ\text{C}$ im Dunkeln. Transport: bei Raumtemperatur bis zu drei Wochen. Längere Lichteinwirkung vermeiden. Trocken lagern.

Spektrale Eigenschaften

Anregungs-/Absorptionsmaximum / nm:	548
ϵ / $L \cdot mol^{-1} \cdot cm^{-1}$:	162000
Emissionsmaximum / nm:	563
Fluoreszenz-Quantenausbeute:	0.1
CF_{260} :	0.03
CF_{280} :	0.06