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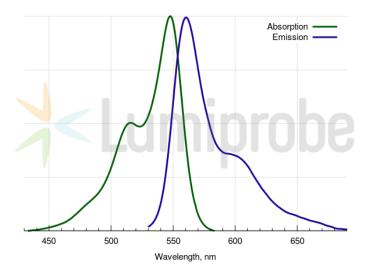
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sulfo-Cyanine3-PEG3-biotin

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

 $\label{eq:Molecular weight: 1011.32} \mbox{Molecular formula:} \mbox{C_{46}H$}_{63}\mbox{$N_6$KO}_{11}\mbox{$S_3$}$

Solubility: good in water, DMF, DMSO Quality control: NMR ¹H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival at -20°C in the dark. Transportation: at room

temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

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