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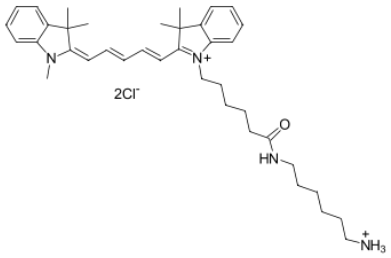
Cyanine5 amine

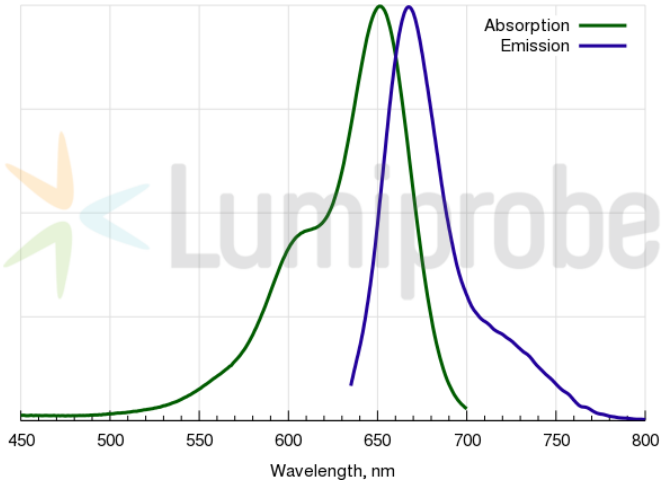
http://www.lumiprobe.com/p/cy5-amine

Cyanine5 amine is a reactive dye which contains amino group, an analog of Cy5® amine. This reagent can be coupled with a variety of activated esters and other electrophilic reagents. For example, this amine can be coupled with EDC-activated carboxylic groups.

This bright and photostable dye is suitable for many different methods of fluorescence detection. Colorful fluorophore can also be easily detected in small quantities (nanomols) by naked human eye.



Structure of Cyanine5 amine



Cyanine5 amine absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	653.77
CAS number:	1807529-70-9
Molecular formula:	$C_{38}H_{54}Cl_2N_4O$
IUPAC name:	3H-Indolium, 2-[5-[1-[6-[(6-aminohexyl)amino]-6-oxohexyl]-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene]-1,3-pentadien-1-yl]-1,3,3-trimethyl-
Solubility:	moderate solubility in water, good in polar organic solvents (DMF, DMSO, alcohols)
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.
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:	646
ε, $L \cdot mol^{-1} \cdot cm^{-1}$:	250000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.2
CF_{260}:	0.03
CF_{280}:	0.04