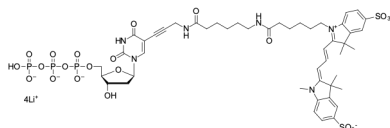


sulfo-Cyanine3 dUTP

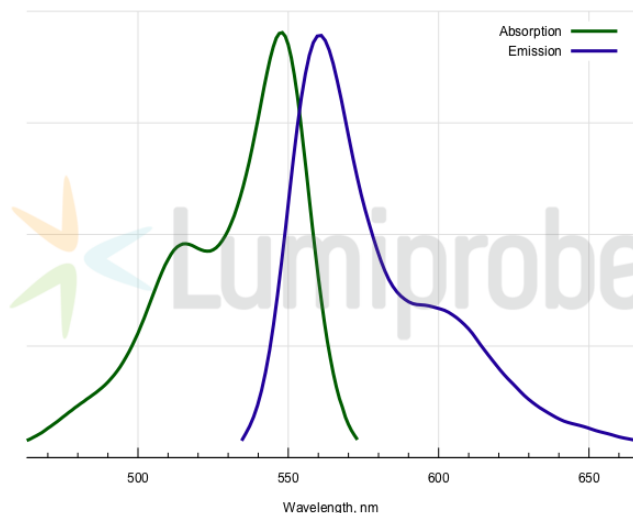
<http://www.lumiprobe.com/p/sulfo-cy3-dutp>

Labeled deoxynucleoside triphosphates (dNTPs) provide an efficient way for the enzymatic labeling of DNA. DNA microarrays, PCR amplicons .

sulfo-Cyanine3 is a dye emitting in yellow range. This fluorophore is a standard dye used in DNA microarray experiments. Quality of each batch is assured by HPLC-MS, and testing in enzymatic reaction.



Structure of Sulfo-Cyanine3 dUTP



Absorption and emission spectra of sulfo-Cyanine3

General properties

Appearance:	red solid
Molecular weight:	1247.84
Molecular formula:	$C_{47}H_{62}N_6Li_4O_{22}P_3S_2$
Solubility:	good in water
Quality control:	HPLC-MS (95%), testing in enzymatic reaction
Storage conditions:	Storage: 12 months after receipt at $-20^{\circ}C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light and excessive freeze-thaw cycles.
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
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	162000
Emission maximum, nm:	563
Fluorescence quantum yield:	0.1
CF_{260} :	0.03
CF_{280} :	0.06