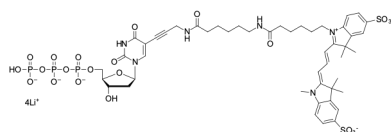


sulfo-Cyanine3 dUTP

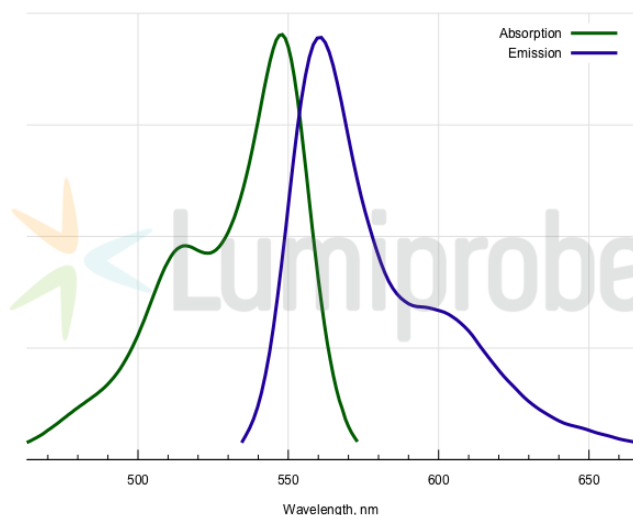
<http://www.lumiprobe.com/p/sulfo-cy3-dutp>

Labeled deoxynucleoside triphosphates (dNTPs) provide an efficient way for the enzymatic labeling of DNA. DNA microarrays, PCR amplicons, and reverse transcripts can be labeled using various dNTPs.

sulfo-Cyanine3 is a dye emitting in yellow range. This fluorophore is a standard dye used in DNA microarray experiments. sulfo-Cyanine3 dUTP is a labeled triphosphate providing efficient labeling in enzymatic reactions with various enzymes, including simple Taq polymerase. 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 / solution
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°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light and excessive freeze-thaw cycles.

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