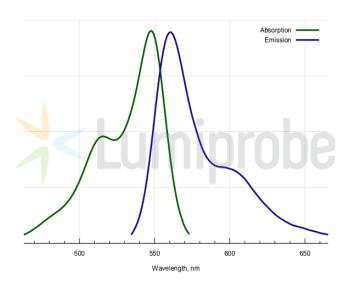


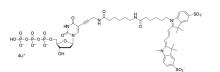
sulfo-Cyanine3 dUTP

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

Appearance:red solid / solutionMolecular weight:1247.84Molecular formula: $C_{47}H_{62}N_6Li_4O_{22}P_3S_2$ Solubility:good in waterQuality control:HPLC-MS (95%), testing in enzymatic reactionStorage conditions:Storage: 12 months after receival at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light and excession	operties
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freeze-thaw cycles.	litions:

Spectral properties

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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