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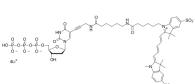
sulfo-Cyanine5 dUTP

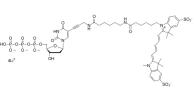
http://www.lumiprobe.com/p/sulfo-cy5-dutp

sulfo-Cyanine5 dUTP (deoxyuridine triphosphate) is a modified nucleoside triphosphate for the enzymatic labeling of DNA. The triphosphate is an analog of Cy5-dUTP. However, unlike aminoallyl dUTP directly modified with dye, this triphosphate contains a longer linker arm that increases the efficiency of its incorporation by usual polymerases, like Tag polymerase.

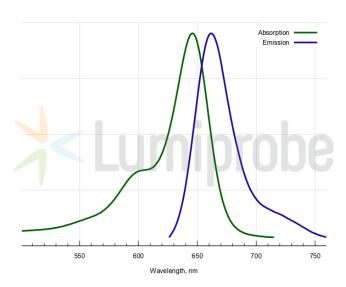
sulfo-Cyanine5 is a bright, far-red emitting dye for the Cy5 channel.

The triphosphate is supplied in the lyophilized ready-to-use form of lithium salt.





Structure of sulfo-Cyanine5 dUTP



Absorption and emission spectra of sulfo-Cyanine5

General properties

Appearance: blue solid / solution

Molecular weight: 1275.89

Molecular formula: $C_{49}H_{66}N_6Li_4O_{22}P_3S_2$ Solubility: good in water

Quality control: HPLC-MS (95%), testing in enzymatic reaction

Storage conditions: Storage: 12 months after receival 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: 646 ϵ , L·mol⁻¹·cm⁻¹: 271000 Emission maximum, nm: 662 Fluorescence quantum yield: 0.28 CF₂₆₀: 0.04 0.04 CF₂₈₀: