

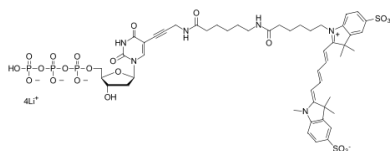
sulfo-Cyanine5 dUTP

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

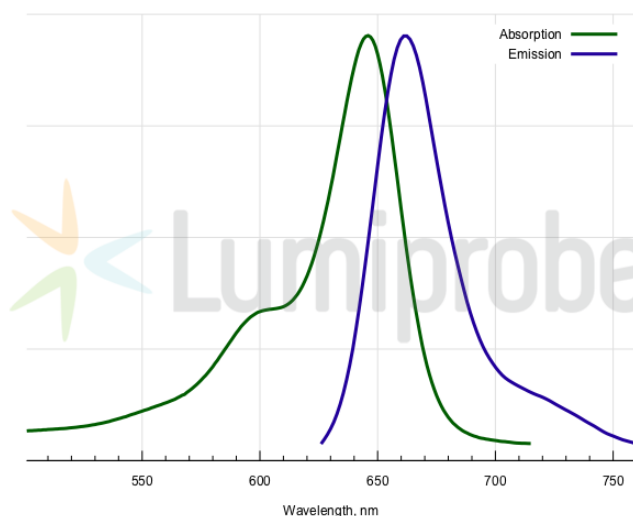
sulfo-Cyanine5 dUTP (deoxyuridine triphosphate) is a modified nucleoside triphosphate for the enzymatic labeling of DNA. The triphosphate is an analog of Cy5-dUTP. However, unlike aminoallyl dUTP directly modified with dye, this triphosphate contains a longer linker arm that increases the efficiency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

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
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 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:	646
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28
CF_{260} :	0.04
CF_{280} :	0.04