

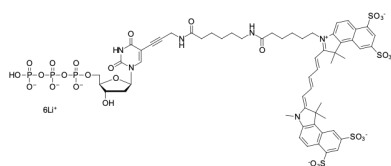
sulfo-Cyanine5.5 dUTP

<http://www.lumiprobe.com/p/sulfo-cy55-dutp>

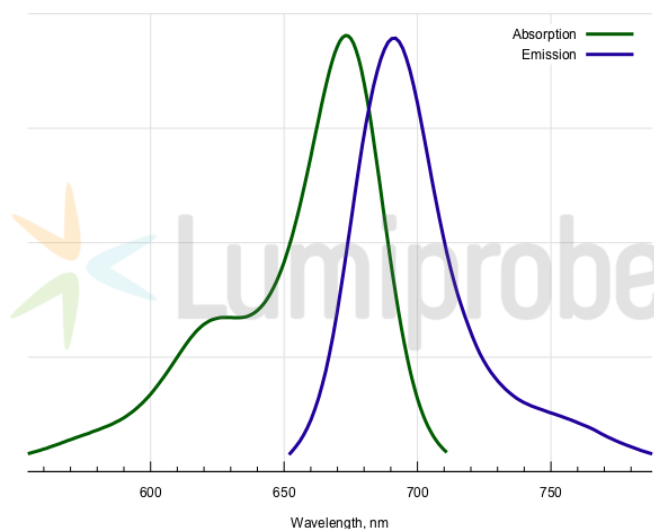
sulfo-Cyanine5.5 is a far red emitting dye. Since almost no biological sources of fluorescence background emit in its range, this fluorophore provides great signal to noise ratio.

This molecule is a modified deoxyuridine triphosphate (dUTP) that is a substrate to many enzymes including simple Taq polymerase. Due to its extended amino-11-linker, this reagent provides a better alternative to aminoallyl derived triphosphates with dyes.

The QC of triphosphates includes HPLC-MS and enzymatic testing.



Structure of Sulfo-Cyanine5.5 dUTP



Absorption and emission spectra of sulfo-Cyanine5.5

General properties

Appearance:	blue solid / solution
Molecular weight:	1554.97
Molecular formula:	$C_{56}H_{63}N_6Li_6O_{28}P_3S_4$
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.

Spectral properties

Excitation/absorption maximum, nm:	673
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	211000
Emission maximum, nm:	691
Fluorescence quantum yield:	0.21
CF_{260} :	0.09
CF_{280} :	0.11