

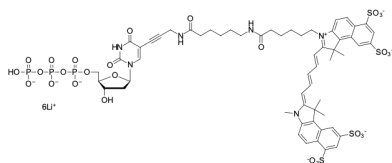
## Sulfo-Cyanine5.5 dUTP

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

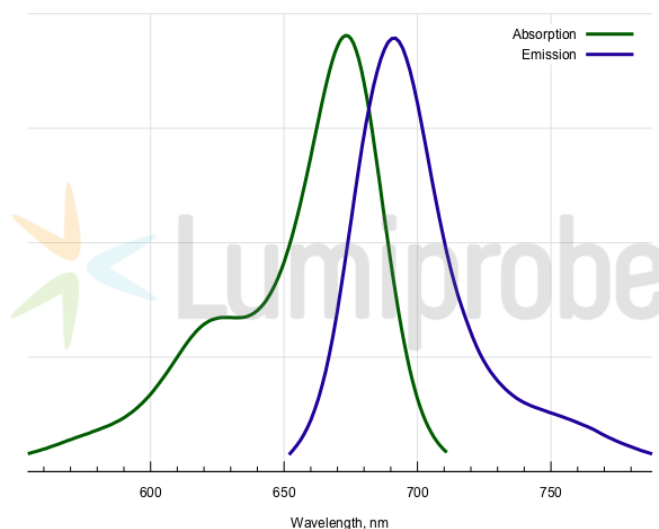
Sulfo-Cyanine5.5 is a far red emitting dye. Since almost no biological sources of fluorescence background emit in its range, this fluorophore provides great signal to noise ratio.

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:	$C_{58}H_{63}N_6Li_6O_{28}P_3S_4$
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 maximum, nm:	673
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	235000
Emission maximum, nm:	691
$CF_{260}$ :	0.09
$CF_{280}$ :	0.11