

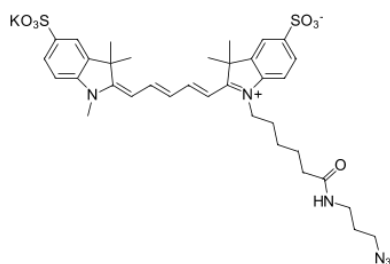
## sulfo-Cyanine5 azide

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

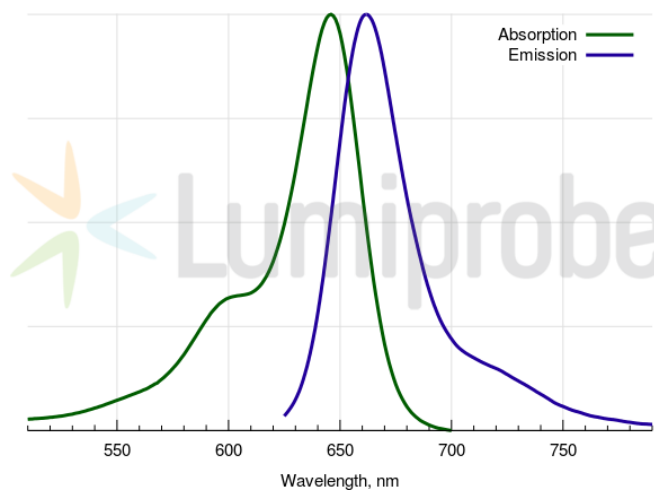
Water-soluble Cyanine5 dye azide for click chemistry. Bright and photostable dye with red fluorescence. The reagent has high water solubility. Due to high solubility and hydrophilicity, the dye can be used for labeling biomolecules in native, purely aqueous conditions.

This reagent, instead of competing products, is supplied as an alkaline metal salt, not triethylammonium salt. Therefore, it is a powder that is easy to handle and dispense.

sulfo-Cyanine5 is an analog of Cy5®, a very popular fluorophore; therefore, this reagent is compatible with a wide range of standard fluorescent instrumentation such as imagers, plate readers, and microscopes.



**Sulfo-Cyanine5 azide structure**



**Sulfo-Cyanine5 absorbance and emission spectra**

### General properties

Appearance:	dark blue crystals
Molecular weight:	762.98
Molecular formula:	$C_{35}H_{43}N_6KO_7S_2$
Solubility:	very high in water
Quality control:	NMR $^1H$ , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light.

### Spectral properties

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

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