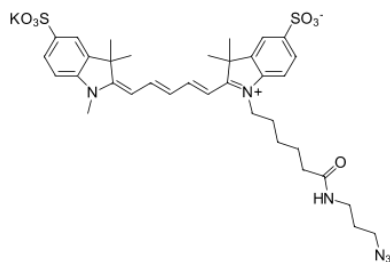


Sulfo-Cyanine5 azide

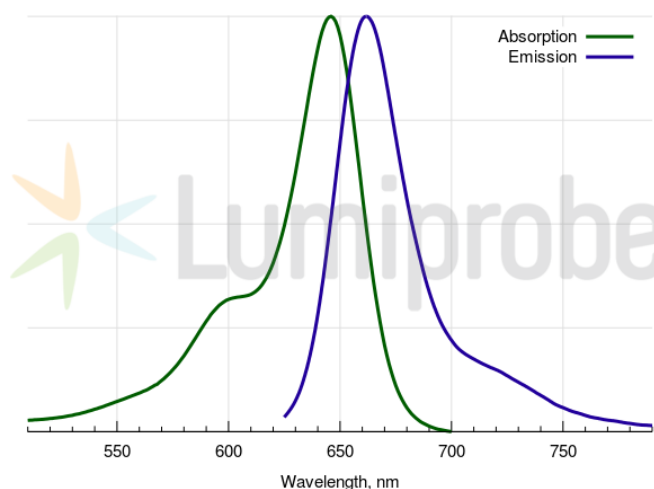
Water-soluble Cyanine5 dye azide for Click chemistry. Bright and photostable dye with red fluorescence. The reagent has high water solubility. Due to high solubility and hydrophilicity, the dye can be used for labeling biomolecules in native, purely aqueous conditions.

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

Sulfo-Cyanine5 is an analog of Cy5®, a very popular fluorophore, therefore this reagent is compatible to 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.
TN VED Code:	3204190000

Spectral properties

Excitation 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

Cy® is a trademark of GE Healthcare.