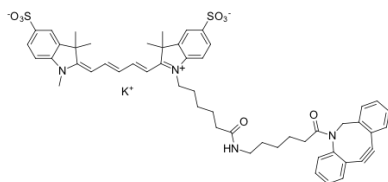


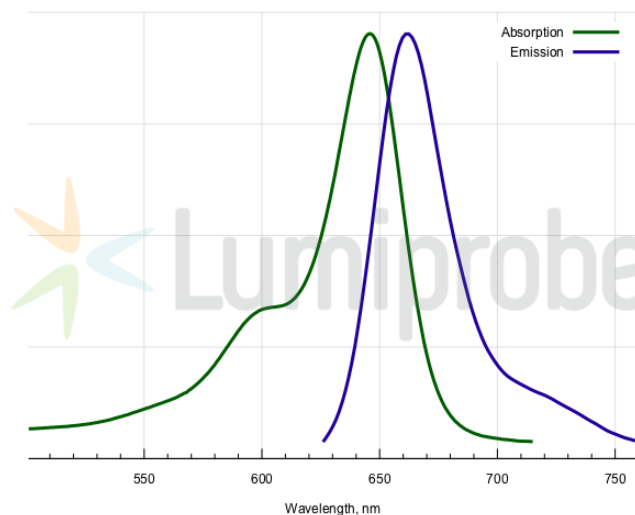
sulfo-Cyanine5 DBCO

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

Copper-free click chemistry reaction between strained cycloalkynes (cyclooctynes), and azides, is a very fast and robust reaction. It can be used for a fast labeling with fluorescent dyes. This reagent is a derivative of water soluble sulfo-Cyanine5 dye which emits in red channel. It is useful for the labeling of biomolecules in aqueous media.



Structure of sulfo-Cyanine5 DBCO



Absorption and emission spectra of sulfo-Cyanine5

General properties

Appearance:	dark colored solid
Molecular weight:	981.27
Molecular formula:	C ₅₃ H ₅₇ N ₄ KO ₈ S ₂
Solubility:	good in water, DMF, DMSO
Quality control:	NMR ¹ H, HPLC-MS (95%)
Storage conditions:	Storage: 12 months after receipt at -20°C in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	646
ε, L·mol ⁻¹ ·cm ⁻¹ :	271000
Emission maximum, nm:	662
Fluorescence quantum yield:	0.28