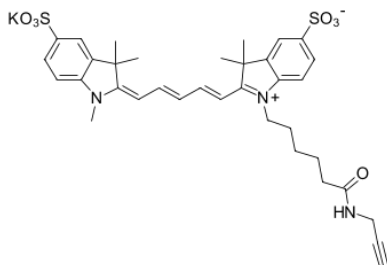


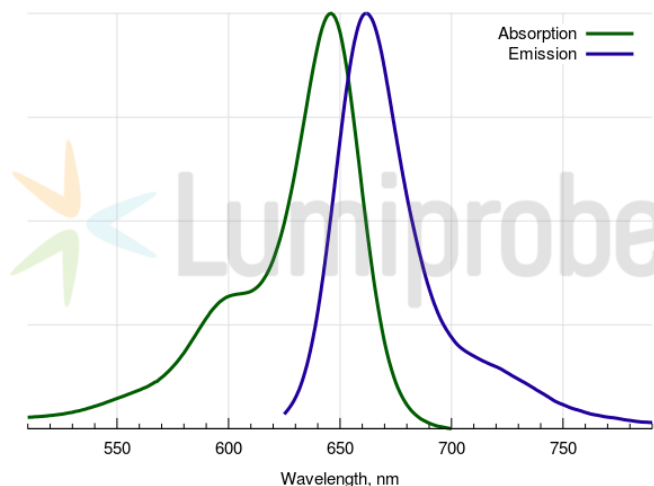
Sulfo-Cyanine5 alkyne

Water soluble reagent with alkyne group for Click Chemistry. Sulfo-Cyanine5 is a sulfonated dye, which possesses high hydrophilicity and aqueous solubility, exceptionally high extinction coefficient, good quantum yield, and compatibility with many instruments.

This reagent is recommended for the conjugation with proteins, nanoparticles, and other applications where hydrophilicity is important.



Structure of Sulfo-Cyanine3.5 NHS ester dye



Sulfo-Cyanine5 absorbance and emission spectra

General properties

| | |
|---------------------|--|
| Appearance: | dark blue solid |
| Molecular weight: | 717.94 |
| CAS number: | 1617572-09-4 (inner salt); 1617497-19-4 (sodium salt) |
| Molecular formula: | C ₃₅ H ₄₀ N ₃ KO ₇ S ₂ |
| Solubility: | very high in water, DMSO, DMF |
| Quality control: | NMR ¹ H, HPLC-MS (95+%) |
| Storage conditions: | Storage: 24 months after receipt at -20°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·mol ⁻¹ ·cm ⁻¹ : | 271000 |
| Emission maximum, nm: | 662 |
| Fluorescence quantum yield: | 0.28 |
| CF ₂₆₀ : | 0.04 |
| CF ₂₈₀ : | 0.04 |

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