

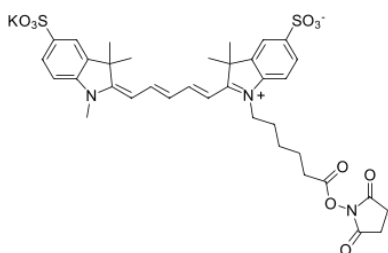
Sulfo-Cyanine5 NHS ester

Water soluble Cyanine 5 succinimidyl ester (SE), an equivalent of Cy5[®] NHS ester, for the labeling of various amine-containing molecules in aqueous phase without use of any organic co-solvent. This product is therefore particularly useful for the labeling of proteins which denature in the presence of organic co-solvents, as well as for proteins with low solubility.

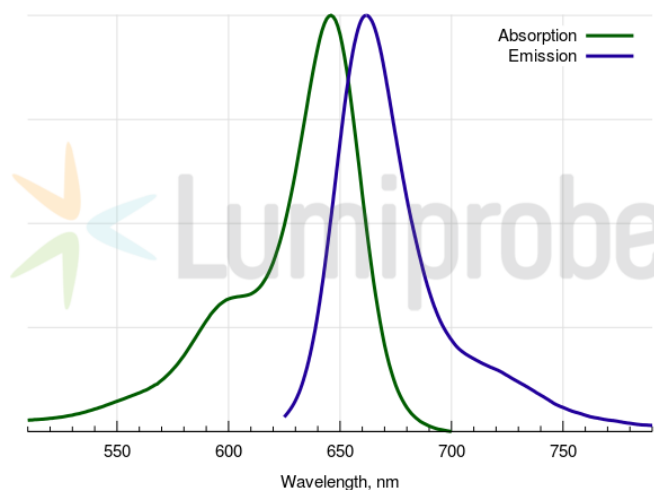
Sulfo-Cyanine 5 is an analog of Cy5[®], one of the most popular fluorophores which is compatible with various equipment such as plate readers, microscopes, and imagers.

This dye is highly hydrophilic and water-soluble. A [non-sulfonated analog](#) is also available.

Can be used as a replacement for Cy5[®], Alexa Fluor 647, DyLight 649 for all applications.



Cy5 NHS ester structure



Sulfo-Cyanine 5 absorbance and emission spectra

General properties

Appearance:	dark blue powder
Molecular weight:	777.95
CAS number:	2230212-27-6 (potassium salt); 937739-58-7 (inner salt)
Molecular formula:	C ₃₆ H ₄₀ N ₃ KO ₁₀ S ₂
Solubility:	very good in water, good in DMF and 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.
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

Cy[®] is a trademark of GE Healthcare.