

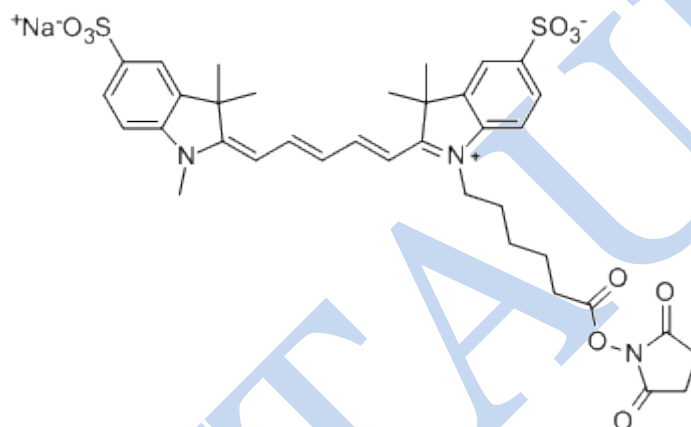
## Sulfo-Cy5 NHS ester

Catalog number : 13320

Water soluble Cy5 succinimidyl ester, for the labeling of various amine-containing molecules in aqueous phase, without use of organic co-solvent.

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

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



[download in ChemDraw format](#)

### General properties

Appearance: dark blue powder

Solubility: Good in water and polar organic solvents (DMF, DMSO), moderate in alcohols and acetonitrile, poor in organic solvents (DCM, chloroform)

Molar weight: 761.84

Mass spec M+ increase: 624.8

## Spectral properties

Cy5 excitation  
maximum,  $\lambda_{\max}^{\text{ex}}$ , nm: 646

Cy5 extinction at  
 $\lambda_{\max}^{\text{ex}}$  271,000

Cy5 emission  
maximum,  $\lambda_{\max}^{\text{fluor}}$ ,  
nm: 662

Cy5 fluorescence  
quantum yield: 0.2

## Quality control

NMR: 95+%

TLC: pure

Functional testing  
(reaction with amine): pass

## Storage conditions

Store NHS esters at -20°C in the dark. Desiccate.