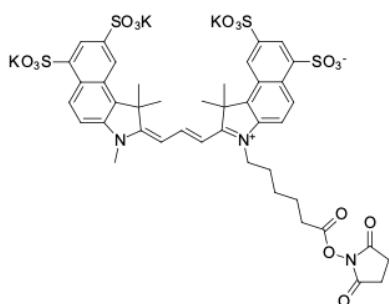


## sulfo-Cyanine3.5 NHS ester

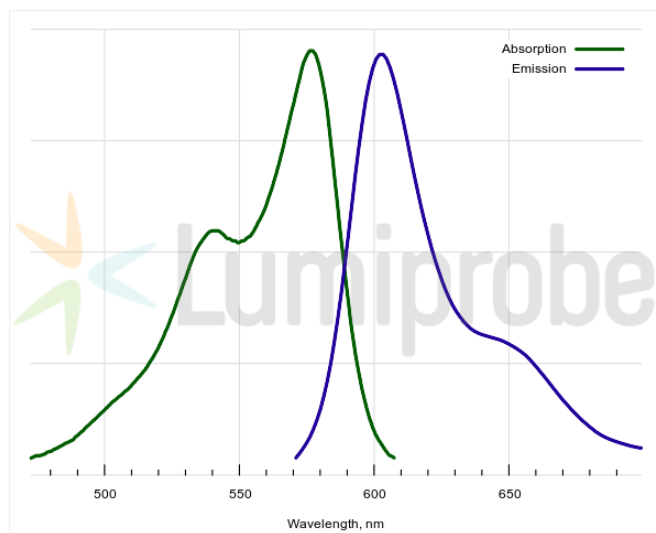
<http://www.lumiprobe.com/p/sulfo-cy35-nhs-ester>

Cyanine3.5 is a fluorescent dye with absorption and emission intermediate between Cyanine3 and Cyanine5. Sulfonated version contains four sulfo groups which ensure high solubility and hydrophilicity of the fluorophore and labeled conjugates.

The NHS ester reactive group allows to label primary and secondary amine groups.



**Structure of sulfo-Cyanine3.5 NHS ester**



**Absorption and emission spectra of sulfo-Cyanine3.5**

### General properties

Appearance:	deep purple powder
Molecular weight:	1088.33
CAS number:	2231670-91-8 (without cation)
Molecular formula:	$C_{42}H_{40}N_3K_3O_{16}S_4$
Solubility:	good in water, DMF, DMSO
Quality control:	NMR $^1H$ , 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:	576
$\epsilon$ , $L \cdot mol^{-1} \cdot cm^{-1}$ :	139000
Emission maximum, nm:	603
Fluorescence quantum yield:	0.11
$CF_{260}$ :	0.16
$CF_{280}$ :	0.17