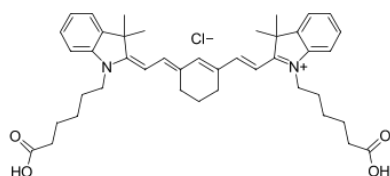


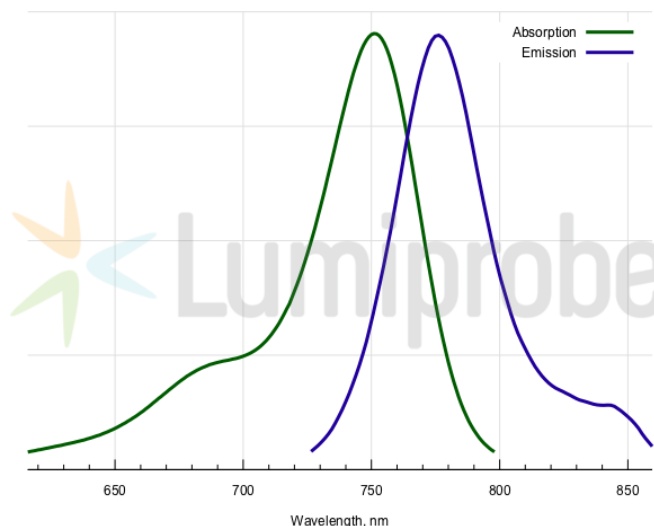
Cyanine7 dicarboxylic acid

<http://www.lumiprobe.com/p/cy7-dicarboxylic-acid>

Cyanine7 dicarboxylic acid is a bifunctional dye molecule bearing two carboxylic groups. Cyanine7 possesses near infrared fluorescence.



Structure of Cyanine7 dicarboxylic acid



Absorption and emission spectra of Cyanine7 fluorophore

General properties

Appearance:	dark green solid
Molecular weight:	685.33
Molecular formula:	$C_{42}H_{53}N_2ClO_4$
Solubility:	good in DCM, DMF, DMSO
Quality control:	NMR 1H , HPLC-MS (95%)
Storage conditions:	Storage: 24 months after receipt at $-20^\circ C$ in the dark. Transportation: at room temperature for up to 3 weeks. Avoid prolonged exposure to light. Desiccate.

Spectral properties

Excitation/absorption maximum, nm:	750
ϵ , $L \cdot mol^{-1} \cdot cm^{-1}$:	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3
CF_{260} :	0.022
CF_{280} :	0.029