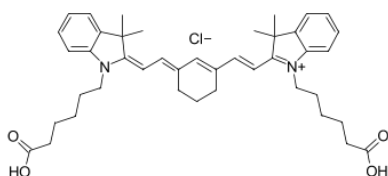


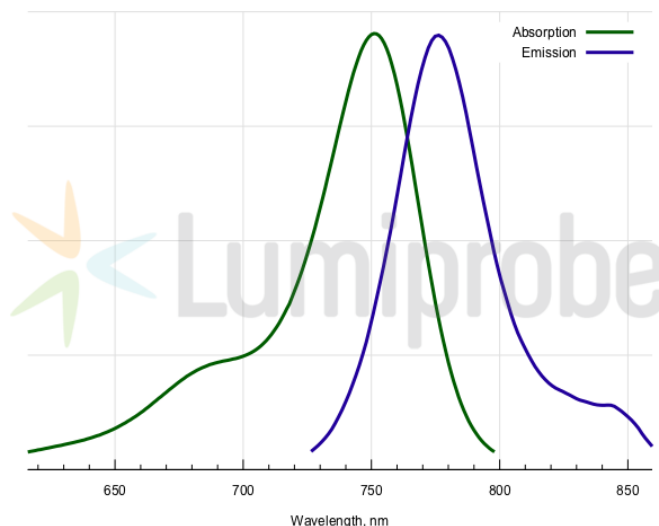
Cyanine7 dicarboxylic acid

<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 ₂ ClO ₄ |
| Solubility: | good in DCM, DMF, DMSO |
| 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. Desiccate. |

Spectral properties

| | |
|--|--------|
| Excitation/absorption maximum, nm: | 750 |
| ε, L·mol ⁻¹ ·cm ⁻¹ : | 199000 |
| Emission maximum, nm: | 773 |
| Fluorescence quantum yield: | 0.3 |
| CF ₂₆₀ : | 0.022 |
| CF ₂₈₀ : | 0.029 |