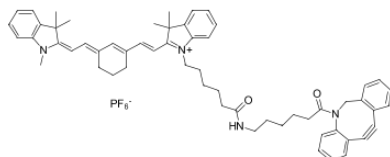


## Cyanine7 DBCO

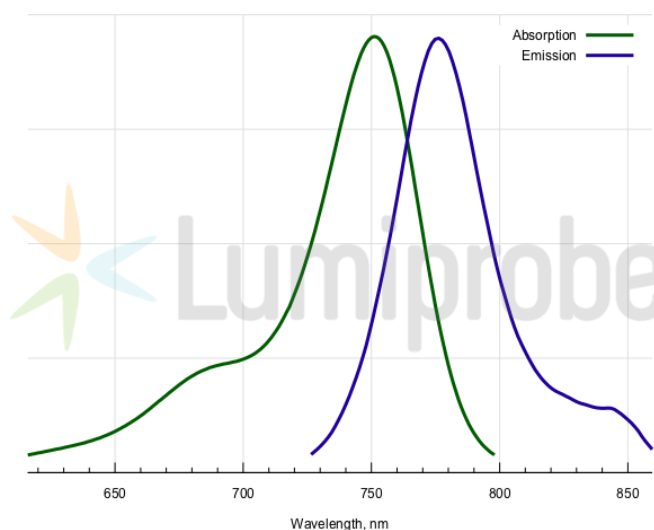
<http://www.lumiprobe.com/p/cy7-dbc>

Cyanine7 DBCO is a NIR fluorescent dye with cycloalkyne moiety for the conjugation with azides by means of copper-free, strain-promoted alkyne-azide cycloaddition (SPAAC).

Azodibenzocyclooctyne (DBCO or ADIBO) fragment is a stable but active cycloalkyne that reacts very rapidly with azides.



**Structure of Cyanine7 DBCO**



**Absorption and emission spectra of Cyanine7 fluorophore**

### General properties

Appearance:	dark green solid
Mass spec M+ increment:	849.5
Molecular weight:	885.62
CAS number:	2692677-77-1
Molecular formula:	C <sub>58</sub> H <sub>65</sub> N <sub>4</sub> ClO <sub>2</sub>
Solubility:	good in DMF, DMSO, DCM
Quality control:	NMR <sup>1</sup> 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.

### Spectral properties

Excitation/absorption maximum, nm:	750
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	199000
Emission maximum, nm:	773
Fluorescence quantum yield:	0.3