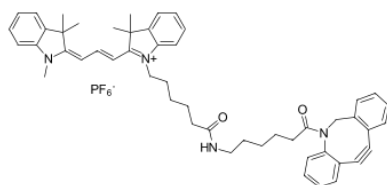


## Cyanine3 DBCO

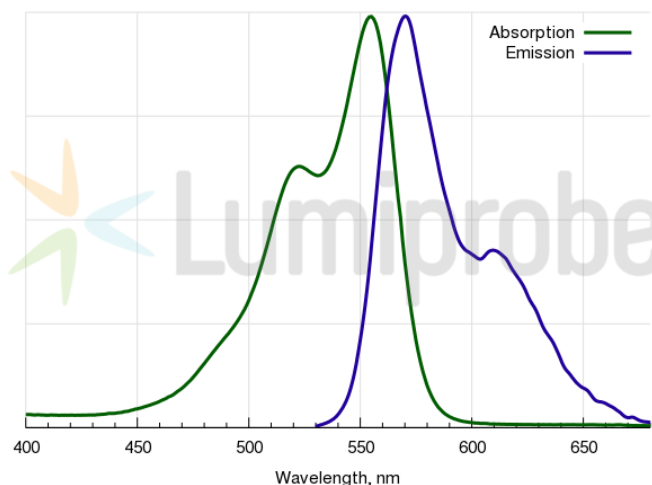
<http://www.lumiprobe.com/p/cy3-dbco>

Azodibenzocyclooctyne (DBCO or ADIBO) is a stable but very reactive cycloalkyne for copper-free click chemistry.

This reagent is a conjugate of DBCO with Cyanine3 fluorophore for the non-catalyzed, strain promoted reaction with azides.



**Structure of Cyanine3 DBCO**



**Absorption and emission spectra of Cyanine3 fluorophore**

### General properties

Appearance:	dark red powder
Molecular weight:	902.99
CAS number:	2692677-79-3
Molecular formula:	C <sub>51</sub> H <sub>57</sub> N <sub>4</sub> O <sub>2</sub> PF <sub>6</sub>
Solubility:	good in DMF, DMSO, DCM, alcohols, practically insoluble in water (< 1 uM, < 1 mg/L)
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:	555
ε, L·mol <sup>-1</sup> ·cm <sup>-1</sup> :	150000
Emission maximum, nm:	570
Fluorescence quantum yield:	0.31