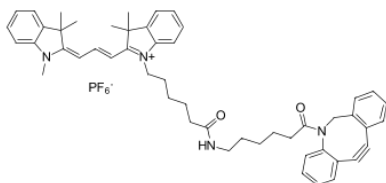


## Cyanine3 DBCO

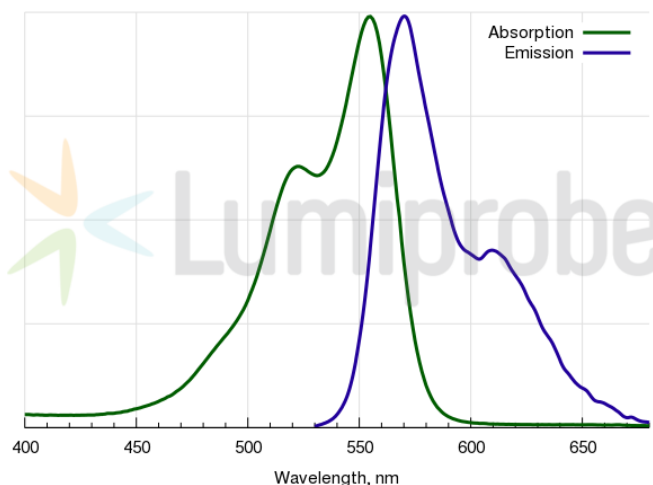
<http://www.lumiprobe.com/p/cy3-dbco>

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   |