

## **Lumiprobe Corporation**

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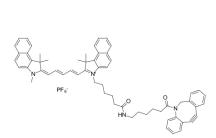
## Cyanine 5.5 DBCO

http://www.lumiprobe.com/p/cy55-dbco

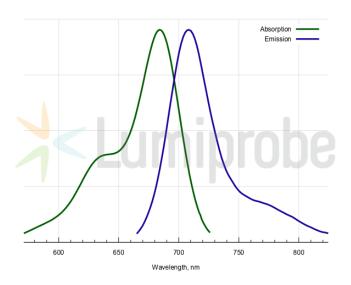
Strain promoted alkyne azide cycloaddition (SPAAC) between strained cycloalkynes and azides is a useful bioconjugation method that eliminates the need for copper catalyst necessary for classical CuAAC click chemistry.

Cyanine 5.5 DBCO is a cyclooctyne product containing Cyanine 5.5 fluorescent dye. This fluorophore is used in bioimaging, biodistribution studies, and microscopy.

Cyanine 5.5 DBCO can be used to conjugate the fluorophore with various azides.



Structure of Cyanine 5.5 DBCO



Absorption and emission spectra of Cyanine 5.5

## **General properties**

Appearance: dark colored solid

 $\begin{array}{lll} \text{Mass spec M+ increment:} & 882.5 \\ \text{Molecular weight:} & 1029.14 \\ \text{CAS number:} & 2643308-61-4 \\ \text{Molecular formula:} & C_{61}H_{63}N_4F_6O_2P \\ \end{array}$ 

Solubility: good in DMF, DMSO, chlorinated organic solvents

Quality control: NMR <sup>1</sup>H, HPLC-MS (95%)

Storage conditions: Storage: 24 months after receival 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: 684  $\epsilon$ ,  $L \cdot mol^{-1} \cdot cm^{-1}$ : 198000 Emission maximum, nm: 710 Fluorescence quantum yield: 0.2