

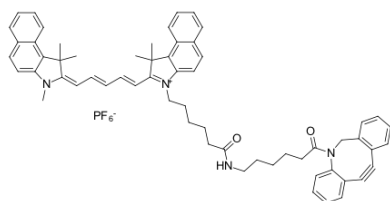
Cyanine5.5 DBCO

<http://www.lumiprobe.com/p/cy55-dbc>

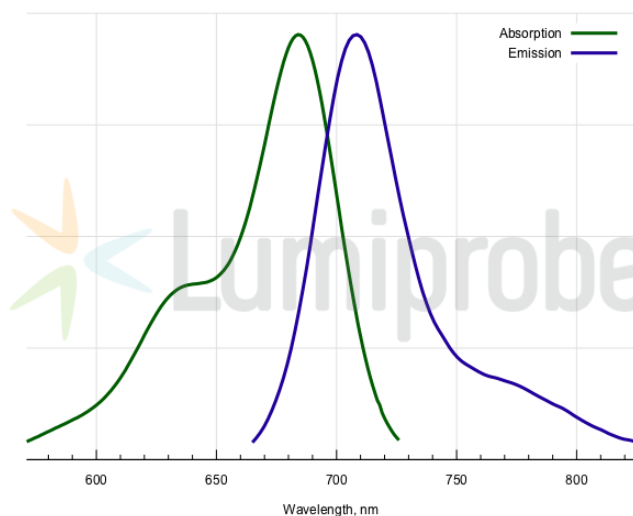
Strain promoted alkyne azide cycloaddition (SPAAC) between strained cycloalkynes and azides is a useful bioconjugation method that eliminates the need for copper catalyst necessary for classical CuAAC click chemistry.

Cyanine5.5 DBCO is a cyclooctyne product containing Cyanine5.5 fluorescent dye. This fluorophore is used in bioimaging, biodistribution studies, and microscopy.

Cyanine5.5 DBCO can be used to conjugate the fluorophore with various azides.



Structure of Cyanine5.5 DBCO



Absorption and emission spectra of Cyanine5.5

General properties

Appearance:	dark colored solid
Mass spec M+ increment:	882.5
Molecular weight:	1029.14
CAS number:	2643308-61-4
Molecular formula:	C ₆₁ H ₆₃ N ₄ F ₆ O ₂ P
Solubility:	good in DMF, DMSO, chlorinated organic solvents
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:	684
ε, L·mol ⁻¹ ·cm ⁻¹ :	198000
Emission maximum, nm:	710
Fluorescence quantum yield:	0.2