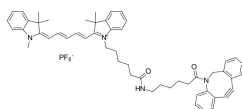


## Cyanine 5 DBCO (A270166)

### Specifications:

Name:	Cyanine 5 DBCO
Description:	<p>A derivative of Cyanine 5 red-emitting fluorophore possessing DBCO (dibenzocyclooctyne, also known as ADIBO, azodibenzocyclooctyne) group for copper free Click chemistry. Strained cycloalkynes, such as cyclooctynes, react with azides very rapidly in the absence of copper catalyst in a strain promoted alkyne azide cycloaddition (spAAC). This reaction is very fast, mild, and biocompatible. Compared to other cycloalkynes, DBCO provide among the fastest reaction kinetics, still possessing good stability.</p>
Absorption Maxima:	646 nm
Extinction Coefficient:	250000 M <sup>-1</sup> cm <sup>-1</sup>
Emission Maxima:	662 nm
Fluorescence Quantum Yield:	0.2
CF <sub>260</sub> :	0.03
CF <sub>280</sub> :	0.04
Mass Spec M+ Shift after Conjugation:	928.4
Purity:	95% (by <sup>1</sup> H NMR and HPLC-MS).
Molecular Formula:	C <sub>53</sub> H <sub>59</sub> N <sub>4</sub> F <sub>6</sub> O <sub>2</sub> P
Molecular Weight:	929.03 kDa
Product Form:	Dark blue solid.
Solubility:	Good in DMF, DMSO, and chlorinated organic solvents. Practically insoluble in water (<1 μM, < 1 mg/L).
Storage:	Shipped at room temperature. Upon delivery, store in the dark at -20°C. Avoid prolonged exposure to light. Desiccate.
Disclaimer:	This product is for research use only. It is not intended for diagnostic or therapeutic use.

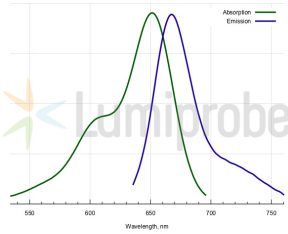
### Images:



Structure of Cyanine 5 DBCO.

## Cyanine 5 DBCO (A270166)

Images continued:



Absorption and emission spectra of Cyanine 5.