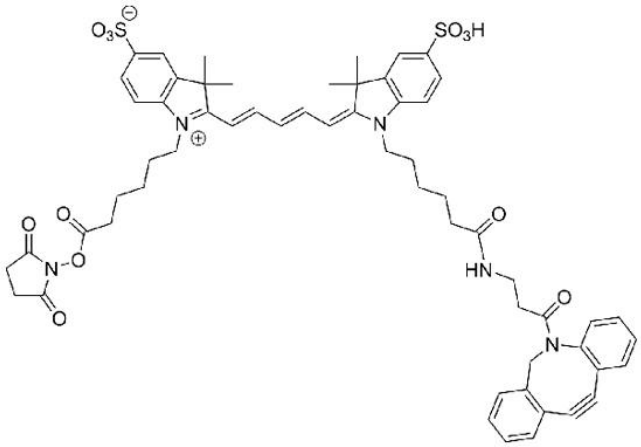
www.vectorlabs.com
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Telephone: (650) 697-3600

CY5 DBCO NHS ESTER

SKU: CCT-1561



DESCRIPTION

Cy5 DBCO NHS Ester is a bright, far red fluorescent dual-label click chemistry probe that allows for simultaneous attachment of DBCO moiety and far red fluorescent Cy5 label. Conjugates prepared with Cy5 DBCO NHS Ester reacts with azides via a copper-free “click chemistry” reaction to form a stable triazole and does not require Cu-catalyst or elevated temperatures. In application where the presence of copper is a concern Cy5 DBCO is an ideal alternative to copper requiring fluorescent alkynes.

Cy5 dye is a water-soluble, pH-insensitive from pH 4 to pH 10, far-red-fluorescent probe with excitation ideally suited for the 633 nm or 647 nm laser lines. Its absorption and emission spactra are almost identical to those of Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

SPECIFICATIONS

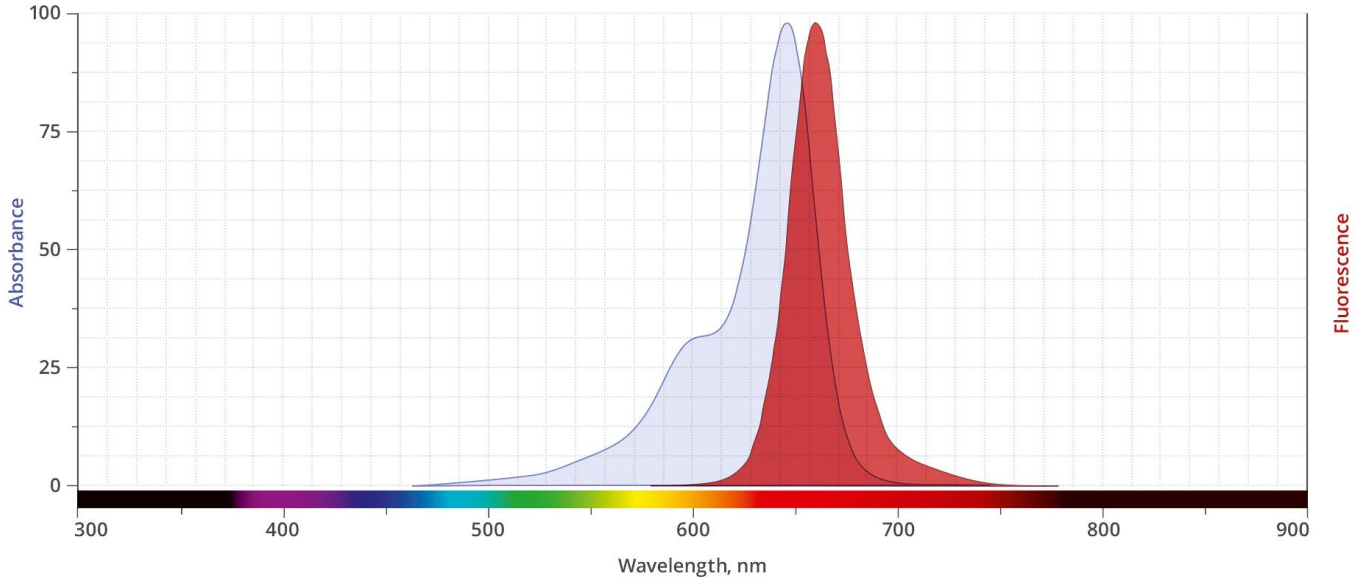
CAS Number	N/A

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Molecular Weight	1098.3
Appearance	Blue solid
Extinction Coefficient	250,000
Unit Size	1 mg, 5 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 647, CF™ 647 Dye, DyLight™649
Laser Line	633 or 635 nm
Excitation/Emission Maximum	649/671 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



SELECTED REFERENCES

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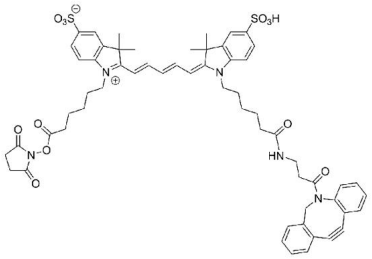
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2. Wiener, J., *et al.* (2020). Preparation of single- and double-oligonucleotide antibody conjugates and their application for protein analytics. *Sci Rep.*, **10 (1)**, 1457. [PubMed]
3. Yong, K.W., *et al.* (2020). Engineering the Orientation, Density, and Flexibility of Single-Domain Antibodies on Nanoparticles To Improve Cell Targeting. *ACS Appl. Mater. Interfaces*, **12(5)**, 5593-600. [PubMed]
4. Song, S., *et al.* (2020). In Situ One-Step Fluorescence Labeling Strategy of Exosomes via Bioorthogonal Click Chemistry for Real-Time Exosome Tracking In Vitro and In Vivo. *Bioconjugate Chem.*, **31(5)**, 1562-74. [PubMed]
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6. Kim, S. H., *et al.* (2014). Cell labeling and tracking method without distorted signals by phagocytosis of macrophages . *Theranostics*, **4 (4)**, 420-31. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Datasheet

GALLERY IMAGES



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