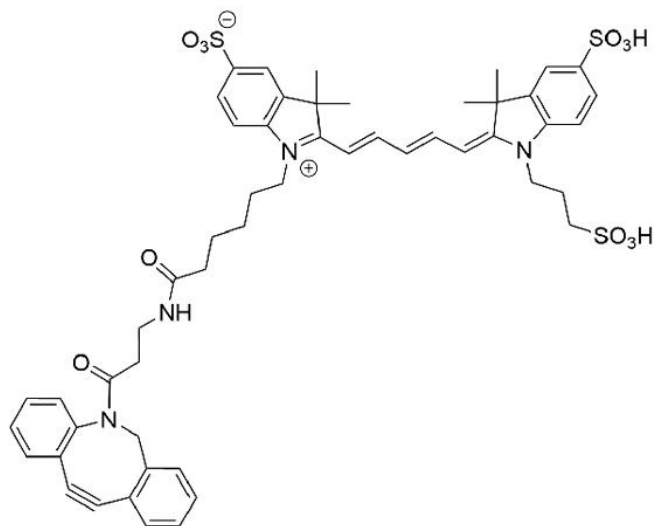




CY5 DBCO

SKU: CCT-A130



DESCRIPTION

Cy5 DBCO is an azide reactive probe used for imaging azide-tagged biomolecules via a copper-free “click reaction”. DBCO moiety reacts with azides to form a stable triazole and does not require Cu-catalyst or elevated temperatures. This far-red fluorescent probe is water-soluble, and its fluorescence is pH-insensitive from pH 4 to pH 10. Its excitation peak is ideally suited for the 633 nm or 647 nm laser lines and its absorption and emission spectra are almost identical to those of Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.

SPECIFICATIONS

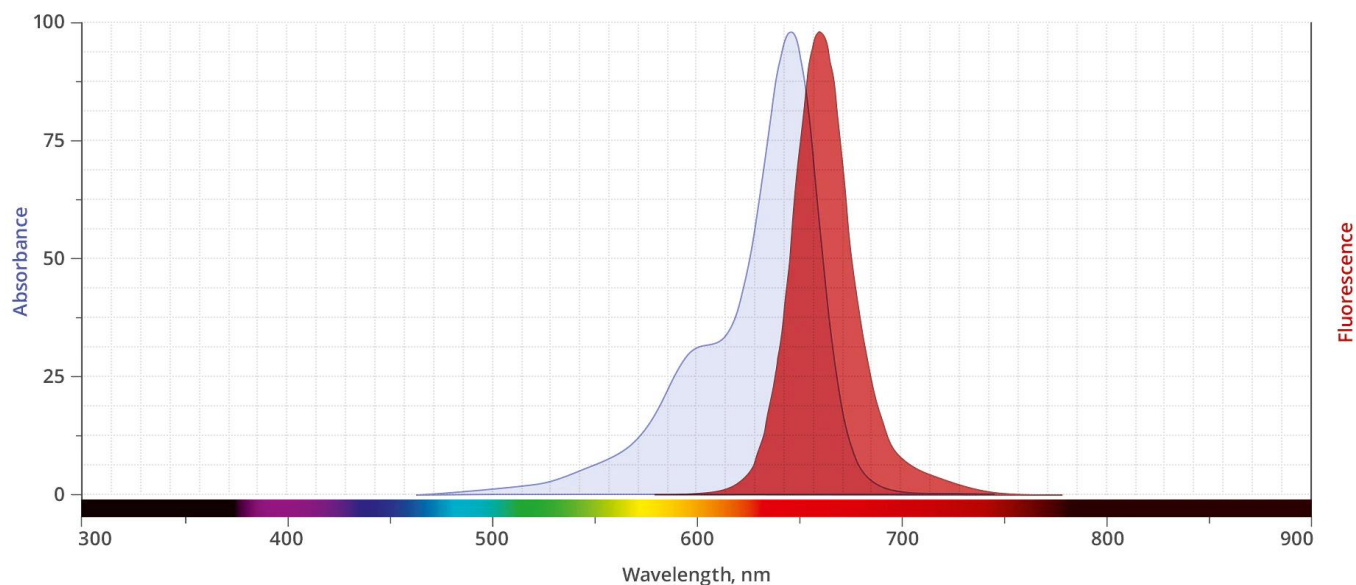
CAS Number	1564286-24-3
Molecular Weight	1211.6
Molecular Formula	C64H86N6O11S3
Appearance	Blue solid

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



Chemical Formula	C64H86N6O11S3
Extinction Coefficient	250,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg, 100 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 nm / 666 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



SELECTED REFERENCES

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For research use only. Not intended for therapeutic or diagnostic use in animals or humans.



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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](#)]
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5. Valentini, T.V., *et al.* (2020). Bioorthogonal non-canonical amino acid tagging reveals translationally active subpopulations of the cystic fibrosis lung microbiota. *Nat Commun.*, **11**, 2287-74. [[PMC](#)]
6. Zhang, C., *et al.* (2016). In vivo metabolic labeling of sialoglycans in the mouse brain by using a liposome-assisted bioorthogonal reporter strategy. *Proc Natl Acad Sci U S A.*, **113 (19)**, 5173-8. [[PubMed](#)]
7. 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

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GALLERY IMAGES

