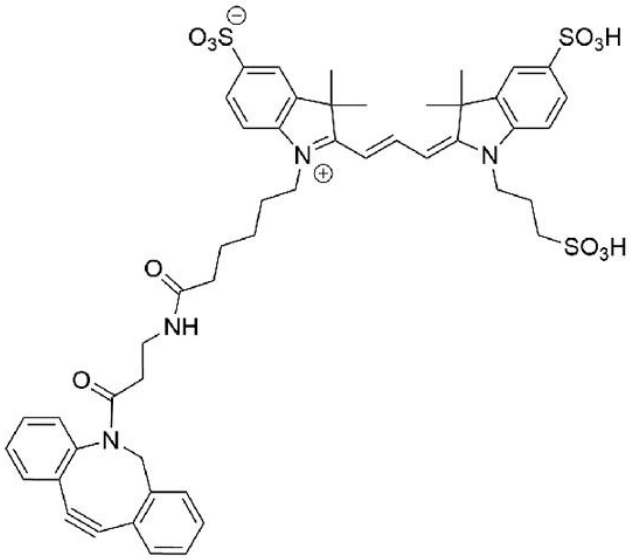
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CY3 DBCO

SKU: CCT-A140



DESCRIPTION

Cy3 DBCO is a bright, far-red-fluorescent, probe routinely used for imaging of azide-containing biomolecules without the need for copper catalyst. Cy3 DBCO 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 Cy3 DBCO is an ideal alternative to copper requiring fluorescent alkynes.

Cy3 is a bright, water-soluble, and pH insensitive orange-fluorescent dye that can be excited using the 532 nm or 555 nm laser line and visualized with TRITC (tetramethylrhodamine) filter sets. Its absorption and emission spactra are almost identical to those of Alexa Fluor® 555, CF® 555 Dye, or any other Cyanine5 based fluorescent dyes.

Cy®3 DBCO reagent is not suitable for staining intracellular components of fixed and permeabilized cells due to high backgrounds.

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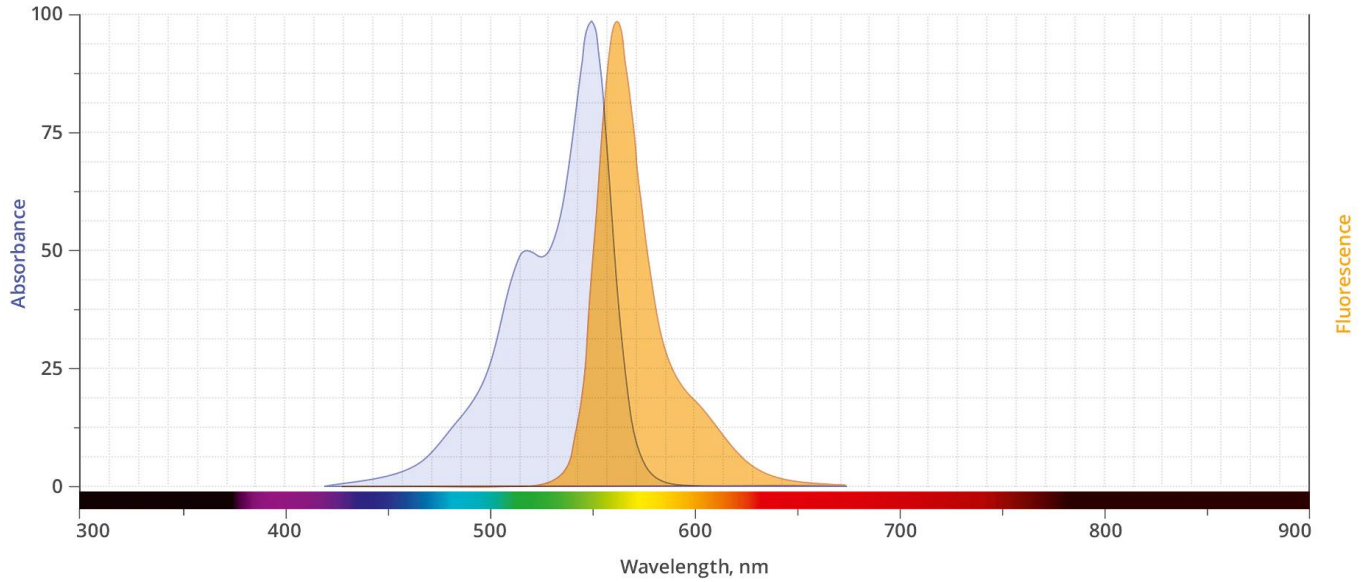
This is sulfonated dye is also known as sulfo-Cyanine3.

SPECIFICATIONS

CAS Number	1782950-79-1
Molecular Weight	983.18
Appearance	Red solid
Extinction Coefficient	150,000
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® 555, Atto™ 555, CF® 555 Dye, DyLight®549
Laser Line	532, 555 or 568 nm
Excitation/Emission Maximum	553/569 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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SELECTED REFERENCES

1. Morana, O., *et al.* (2022). Identification of a New Cholesterol-Binding Site within the IFN-γ Receptor that is Required for Signal Transduction. *Adv Sci (Weinh)*, **e2105170**, Online ahead of print. [PubMed]
2. Daughtry, J. L., *et al.* (2020). Clickable Galactose Analogues for Imaging Glycans in Developing Zebrafish. *ACS Chem Biol.*, **15 (2)**, 318-324. [PubMed]
3. Sato, S., *et al.* (2020). Site-Selective Protein Chemical Modification of Exposed Tyrosine Residues Using Tyrosine Click Reaction. *Bioconjugate Chem.*, **31(5)**, 1463-73. [PubMed]
4. Allo, B., *et al.* (2018). Clickable and High-Sensitivity Metal-Containing Tags for Mass Cytometry. *Bioconjugate Chem.* , **29(6)**, 2028-38. [PubMed]

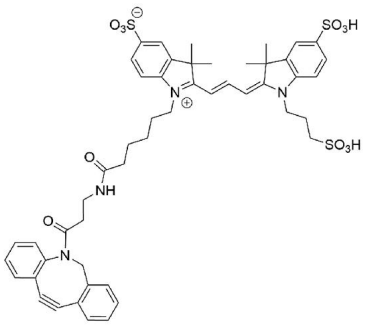
DOCUMENTS

- Safety Data Sheet
- Certificate of Analysis
- Datasheet

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