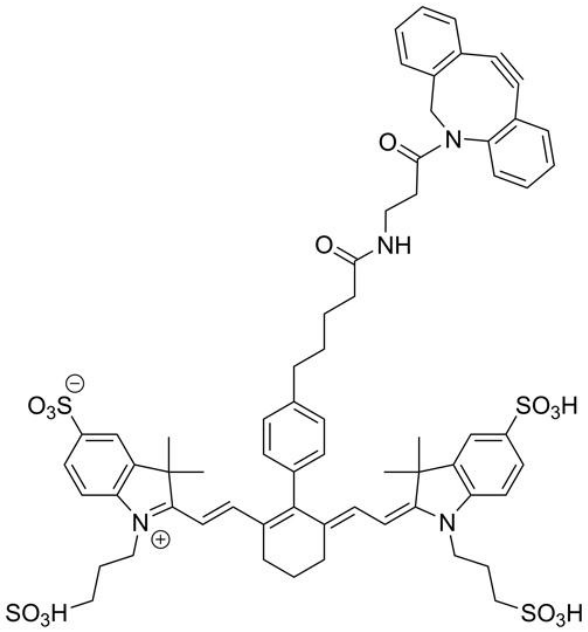
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CY7 DBCO

SKU: CCT-1047



DESCRIPTION

Cy7 DBCO is a bright and photostable near-IR probe that spectrally similar to Alexa Fluor® 750, DyLight® 750, and IRDye® 750 dye. The Cy7 DBCO is water-soluble, hydrophilic dye often a reagent of choice for assay where minimal non-specific binding and exceptional brightness is required. The fluorescence of Cy7 DBCO is pH insensitive from pH 4 to pH 10 and produces minimal autofluorescence of biological specimens in this region of the spectrum. Fluorescence of this long-wavelength Cyanine dye is not visible to the human eye but is readily detected by most imaging systems.

Cy7 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 Cy7 DBCO is an ideal alternative to copper requiring fluorescent

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alkynes.

Cy7 DBCO reagent is not suitable for staining intracellular components of fixed and permeabilized cells due to high backgrounds.

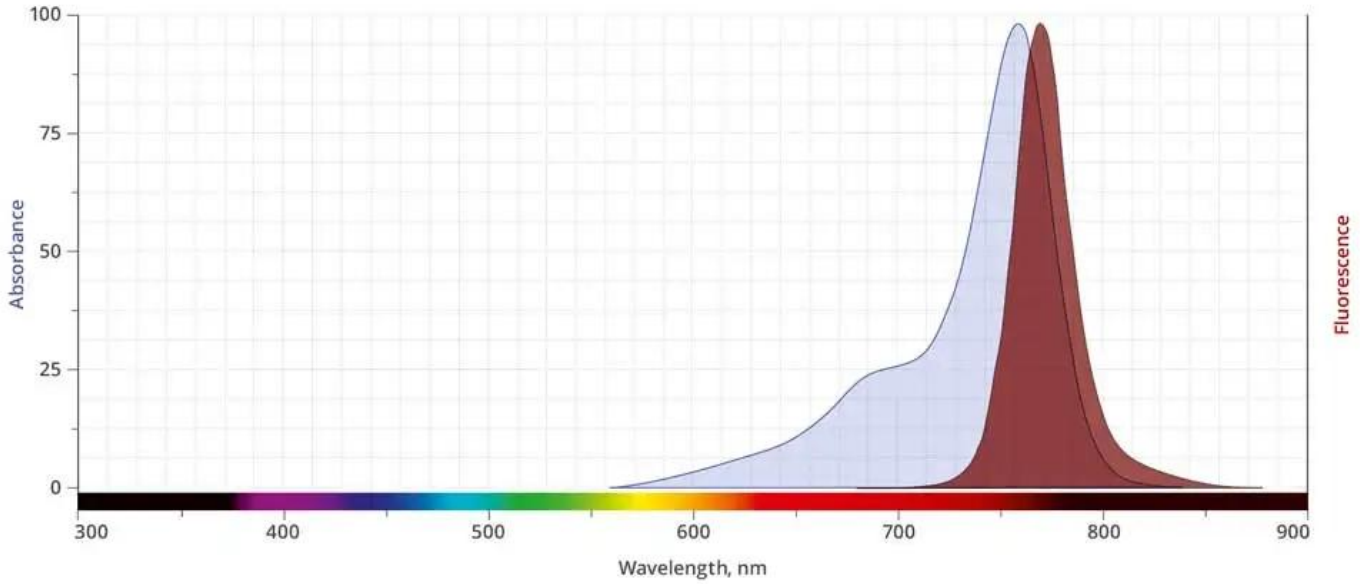
SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1563.11
Molecular Formula	C83H115N7O14S4
Appearance	Dark green solid
Chemical Formula	C83H115N7O14S4
Extinction Coefficient	255,000
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® 750, RDye® 750, CF® 750 Dye, DyLight® 750
Excitation/Emission Maximum	759 nm / 775 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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SELECTED REFERENCES

1. Willems, L. I., *et al.* (2020). Tandem Bioorthogonal Labeling Uncovers Endogenous Cotranslationally *O*-GlcNAc Modified Nascent Proteins. *J Am Chem Soc.*, **142 (37)**, 15729-15739. [PubMed]
2. Van Der Wal, S., *et al.* (2018). Bioorthogonally Applicable Fluorescence Deactivation Strategy for Receptor Kinetics Study and Theranostic Pretargeting Approaches. *Chembiochem.*, **19(16)**, 1758-65. [PubMed]

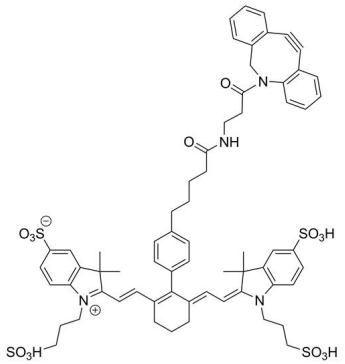
DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES

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