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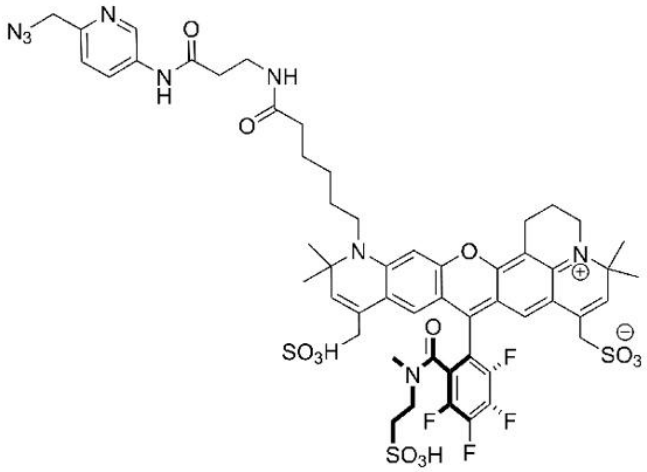
AZDYE 633 PICOLYL AZIDE

SKU: CCT-1549



DESCRIPTION

AZDye™ 633 Picolyl Azide is an advanced fluorescent probe that incorporates a copper-chelating motif to raise the effective concentration of Cu(I) at the reaction site to boost the efficiency of the CuAAC reaction, resulting in a faster and more biocompatible CuAAC labeling. Up to 40-fold increase of signal intensity, compared to conventional azides, was reported (see Selected References).

AZDye™ 633 Azide is a bright and photostable far-red fluorescent probe with excitation ideally suited to the 633 nm or 635 nm laser excitation source. AZDye™ 633 Azide is water-soluble, pH-insensitive from pH 4 to pH 10. AZDye™ 633 spectrally is almost identical to Alexa Fluor® 633, DyLight® 633 or CF® 633 Dye. Combination of superior brightness and very low autofluorescence background signal in most biological samples in far-red spectral region allows for very sensitive detection of alkyne-labeled biomolecules.

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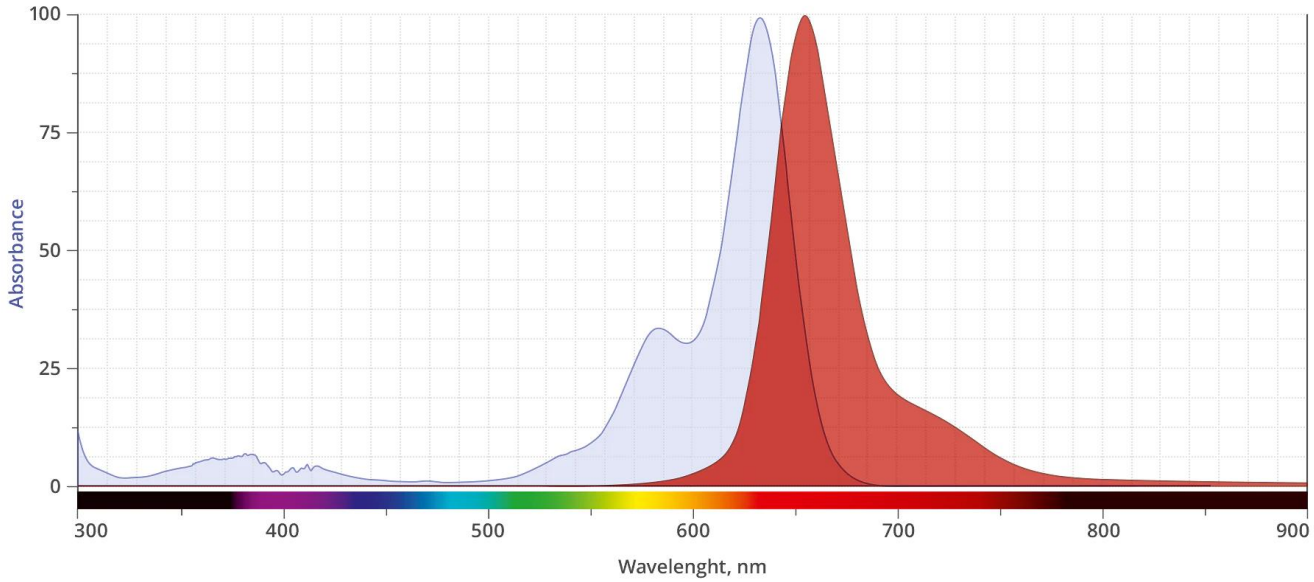
SPECIFICATIONS

CAS Number	N/A
Molecular Weight	1200.26
Appearance	Blue solid
Extinction Coefficient	100,000
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	Alexa Fluor® 633, CF® 633
Laser Line	633 nm or 647 nm
Excitation/Emission Maximum	631/651 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA



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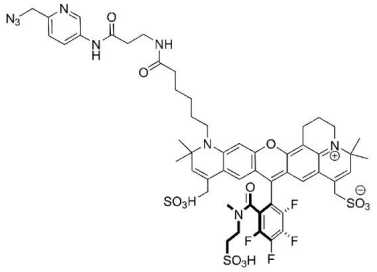
SELECTED REFERENCES

1. Morral, C., *et al.* (2020). Protocol for Efficient Protein Synthesis Detection by Click Chemistry in Colorectal Cancer Patient-Derived Organoids Grown In Vitro. *STAR Protocols*, **Volume 1, 2** [ScienceDirect]
2. Uchiyama, J., *et al.* (2020). Quantitative nascent proteome profiling by dual pulse labeling with O-propargyl-puromycin and stable isotope labeled amino acids. *The Journal of Biochemistry*, **10**, 1093. [Oxford Academic]
3. Jiang, H., *et al.* (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.,*, **25**, 698-706. [PubMed]
4. Uttamapinant, C., *et al*. (2012). Fast, Cell-Compatible Click Chemistry with Copper-Chelating Azides for Biomolecular Labeling. *Angew. Chem. Int. Ed,.*, **51**, 5852-56. [PubMed]
5. Gaebler, A.,*et al.* (2016). A highly sensitive protocol for microscopy of alkyne lipids and fluorescently tagged or immunostained proteins. *J. Lipid. Res.,* **57**, 1934-47. [PubMed]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

GALLERY IMAGES



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