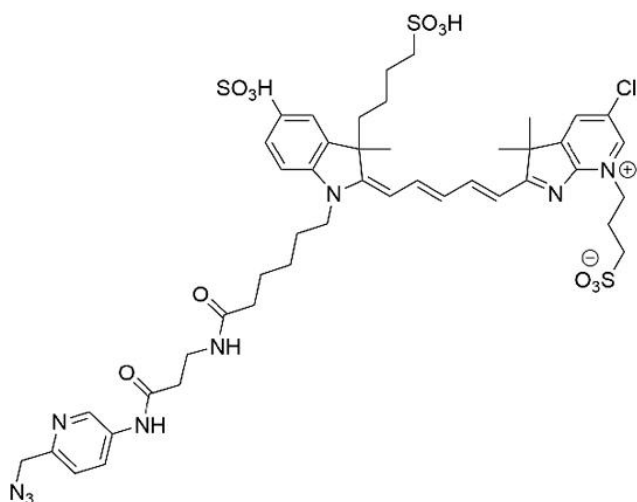




# AZDYE 680 PICOLYL AZIDE

**SKU:** CCT-1511



## DESCRIPTION

AZDye™ 680 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).

## SPECIFICATIONS

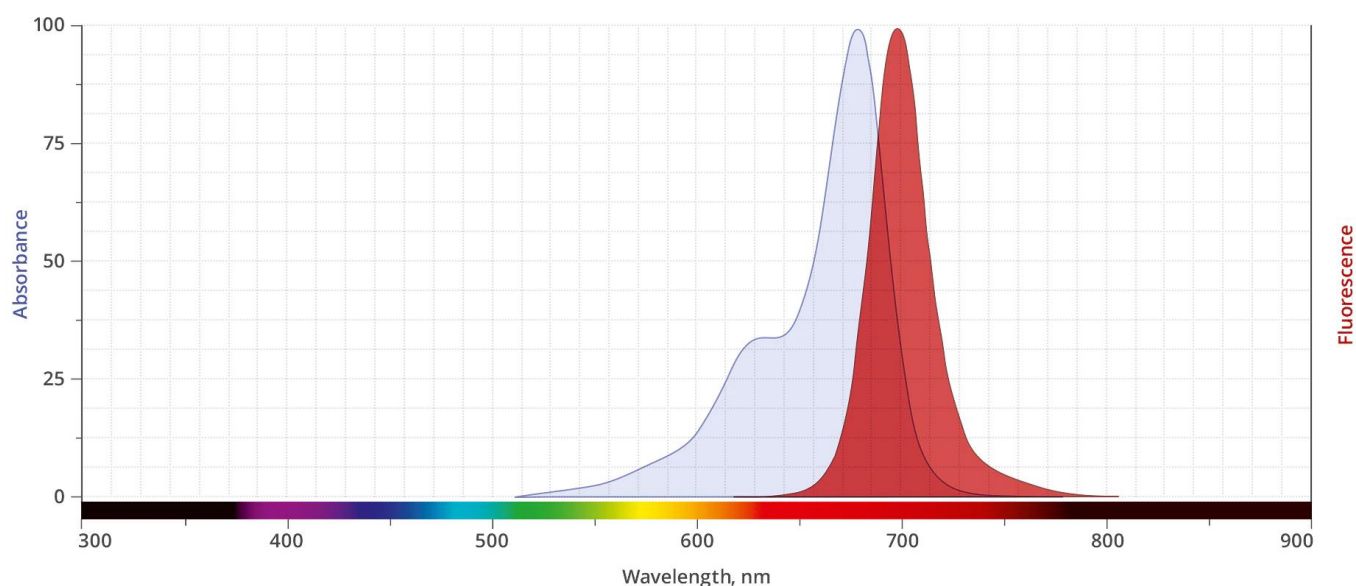
|                               |                      |
|-------------------------------|----------------------|
| <b>CAS Number</b>             | N/A                  |
| <b>Molecular Weight</b>       | 1030.63 (protonated) |
| <b>Appearance</b>             | Blue solid           |
| <b>Extinction Coefficient</b> | 185,000              |
| <b>Purity</b>                 | >90% (HPLC)          |

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



|                                    |                                             |
|------------------------------------|---------------------------------------------|
| <b>Unit Size</b>                   | 1 mg, 5 mg, 25 mg, 100 mg                   |
| <b>Solubility</b>                  | Water, DMSO, DMF                            |
| <b>Storage Instructions</b>        | -20°C. Desiccate                            |
| <b>Spectrally Similar Dyes</b>     | Alexa Fluor® 680, IRDye® 680RD, CF™ 680 Dye |
| <b>Laser Line</b>                  | 633 nm or 647 nm                            |
| <b>Excitation/Emission Maximum</b> | 678/701 nm                                  |
| <b>Shipping Conditions</b>         | Ambient temperature                         |
| <b>Shipping Instructions</b>       | Ambient temperature                         |

## ABS/EM SPECTRA



## SELECTED REFERENCES

1. Jiang, H., *et al.* (2014). Monitoring Dynamic Glycosylation in Vivo Using Supersensitive Click Chemistry. *Bioconjugate Chem.*, **25**, 698-706. [[PubMed](#)]
2. 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](#)]
3. 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](#)]

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- [Safety Data Sheet](#)
- [Datasheet](#)

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AZDye 680 Picolyl Azide

<https://vectorlabs.com/products/azdye-680-picoly-azide/>