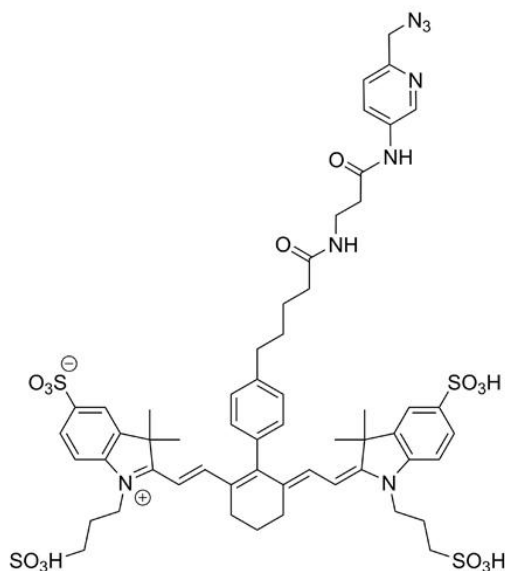


CY7 PICOLYL AZIDE

SKU: CCT-1183



Description

Cy7 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).

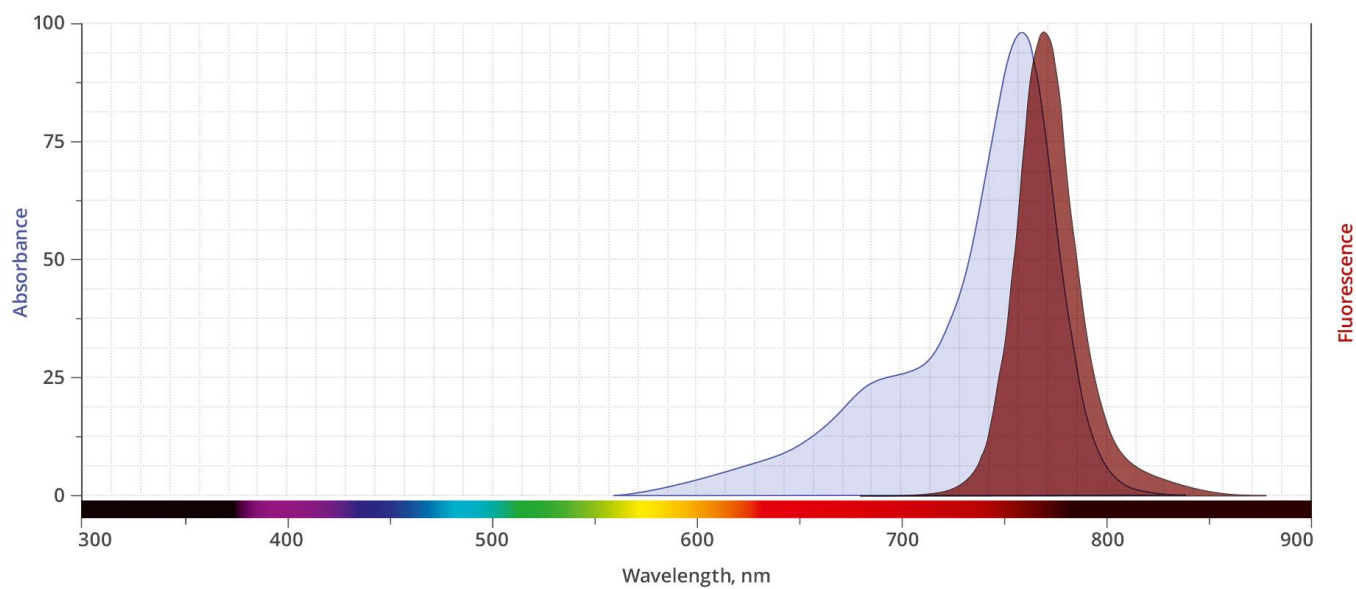
In addition, the use picolyl azides instead of conventional azides allows for at least a tenfold reduction in the concentration of the copper catalyst without sacrificing the efficiency of labeling, significantly improving biocompatibility of CuAAC labeling protocol.

In summary, the introduction of a copper-chelating motif into azide probe leads to a substantial increase in the sensitivity and reduced cell toxicity of CuAAC detection alkyne-tagged biomolecules. This will be of special value for the detection of low abundance targets or living system imaging.

Cy7 Picolyl Azide is a bright and photostable near-IR probe that is spectrally similar to Alexa

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Fluor® 750, DyLight® 750, and IRDye® 750 dye. Cy7 Picolyl Azide 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 dye 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.



Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	753/775 nm
Extinction Coefficient	255,000
Spectrally Similar Dyes	Alexa Fluor® 750, RDye® 750, CF® 750 Dye, DyLight® 750
Molecular weight	1203.43
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Dark green solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

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