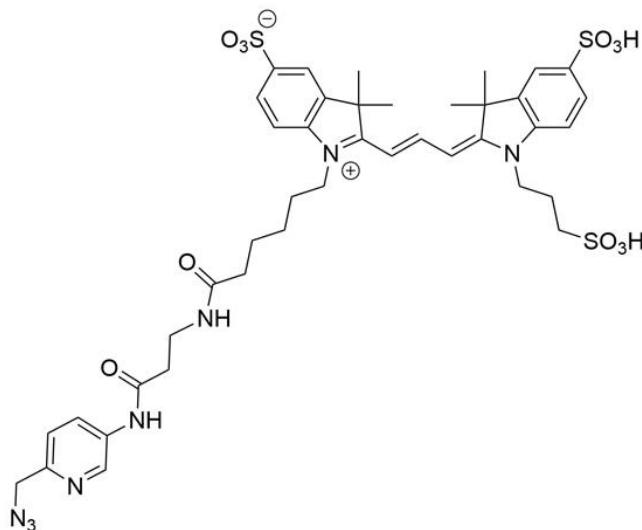


CY3 PICOLYL AZIDE

SKU: CCT-1178



Description

Cy3 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).

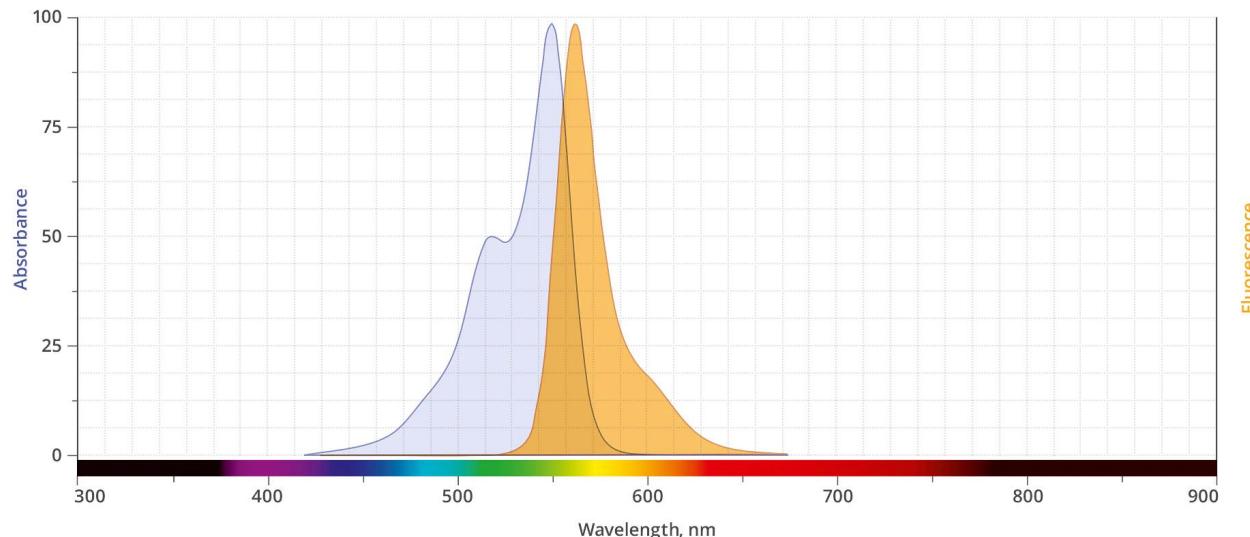
In addition, the use of picolyl azides instead of conventional azides allows for at least a tenfold reduction in the concentration of the copper catalyst without sacrificing the efficiency of labeling, significantly improving biocompatibility of CuAAC labeling protocol.

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.

Cy3 Picolyl Azide is a water-soluble, bright orange-fluorescent dye with excitation ideally suited

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for the 532 nm or 555 nm laser lines and visualized with TRITC (tetramethylrhodamine) filter sets. Cy3 dye is structurally similar, and spectrally is almost identical to Alexa Fluor® 555, CF® 555 Dye, or any other Cyanine3 based fluorescent dyes.



Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	555/572 nm
Extinction Coefficient	155,000
Flow Cytometry Laser Line	532 nm or 555 nm
Microscopy Laser Line	532 nm or 555 nm
Spectrally Similar Dyes	Alexa Fluor® 555, CF® 555, DyLight® 549, Cy3 Dye
Molecular weight	927.08 (protonated)
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Red solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature

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