

AZDYE 647 PICOLYL AZIDE

SKU: CCT-1300

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 O_3H
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 O_3H

Description

AZDye $^{\text{TM}}$ 647 Picolyl Azide is an advanced fluorescent probe that incorporates a copperchelating 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.

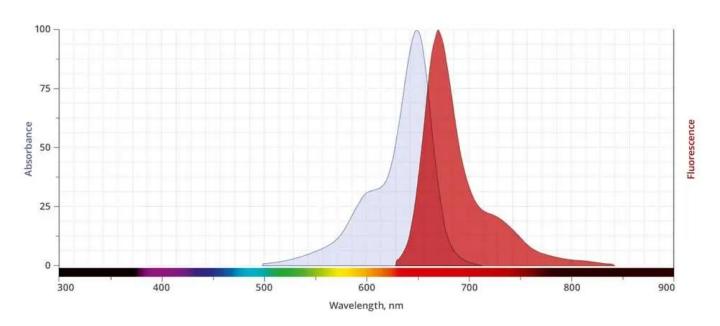
In summary, the introduction of a copper-chelating motif into azide probe leads to a substantial increase in the sensitivity and reduced cell toxicity of CuAAC detection alkyne-tagged biomolecules. This will be of special value for the detection of low abundance targets or living

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system imaging.

AZDye[™] 647 Picolyl Azide is a water-soluble, pH-insensitive from pH 4 to pH 10, far-redfluorescent probe with excitation ideally suited for the 633 nm or 647 nm laser lines. AZDye[™] 647 is structurally similar to Alexa Fluor® 647, and spectrally is almost identical to Cy5 Dye, Alexa Fluor® 647, CF® 647 Dye, or any other Cyanine5 based fluorescent dyes.



Abs/Em Spectra

Specifications

Unit Size 1 mg, 5 mg, 25 mg

Abs/Em Maxima 648/671 nm

Extinction Coefficient 270,000

Flow Cytometry Laser Line 633 nm or 647 nm

Microscopy Laser Line 633 nm or 647 nm

Spectrally Similar Dyes Alexa Fluor® 647, CF® 647, DyLight® 649

Molecular weight 1061.21 (protonated)

CAS N/A

Solubility Water, DMSO, DMF

Purity >95% (HPLC)

Appearance Blue solid

Storage Conditions -20°C. Desiccate

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Shipping Conditions Ambient temperature

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