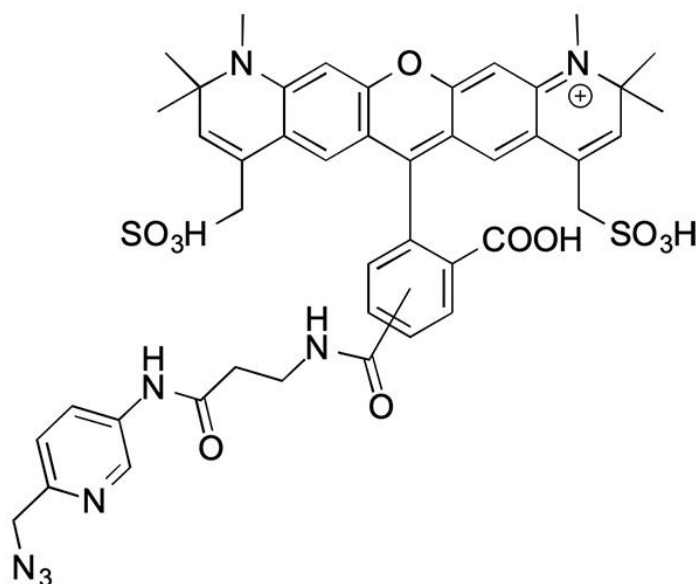


# AZDYE 594 PICOLYL AZIDE

**SKU:** CCT-1296



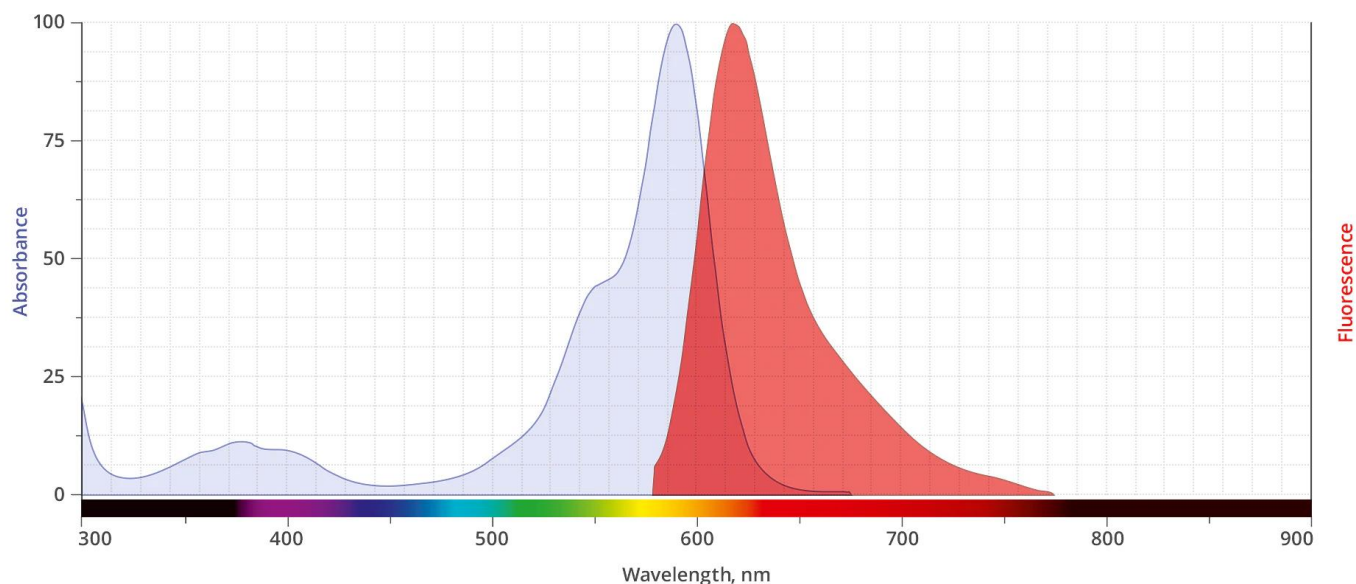
## Description

AZDye™ 594 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.

AZDye™ 594 is bright, water-soluble, and pH-insensitive from pH 4 to pH 10 red-fluorescent dye with absorption and emission maxima at 590 and 617 nm, respectively. It can be used with the 561 nm and 594 nm laser lines. AZDye™ 594 dye structurally is identical to Alexa Fluor® 594. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine core, including CF® 594 Dye, DyLight® 594 and Alexa Fluor® 594.

**For research use only. Not intended for animal or human therapeutic or diagnostic use.**



Abs/Em Spectra

## Specifications

<b>Unit Size</b>	1 mg, 5 mg, 25 mg
<b>Abs/Em Maxima</b>	590/617 nm
<b>Extinction Coefficient</b>	88,000
<b>Flow Cytometry Laser Line</b>	561 nm or 594 nm
<b>Microscopy Laser Line</b>	594 nm
<b>Spectrally Similar Dyes</b>	Alexa Fluor® 594, CF® 594, DyLight® 594
<b>Molecular weight</b>	925.00 (protonated)
<b>CAS</b>	N/A
<b>Solubility</b>	Water, DMSO, DMF
<b>Purity</b>	>95% (HPLC)
<b>Appearance</b>	Red solid
<b>Storage Conditions</b>	-20°C. Desiccate
<b>Shipping Conditions</b>	Ambient temperature

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