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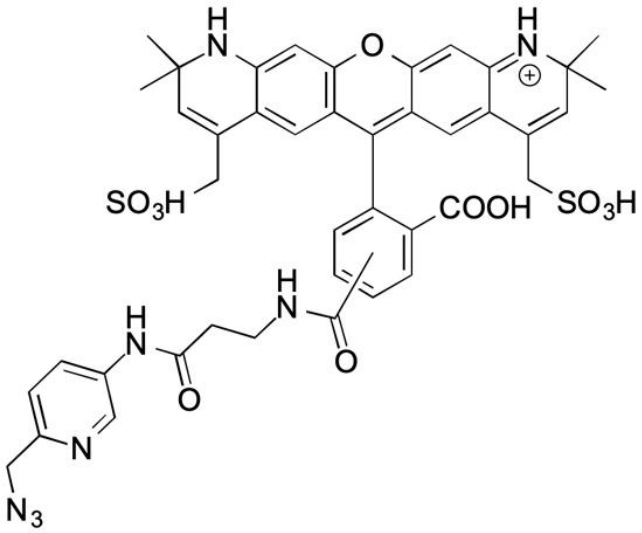
AZDYE 568 PICOLYL AZIDE

SKU: CCT-1292



Description

AZDye™ 568 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.

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

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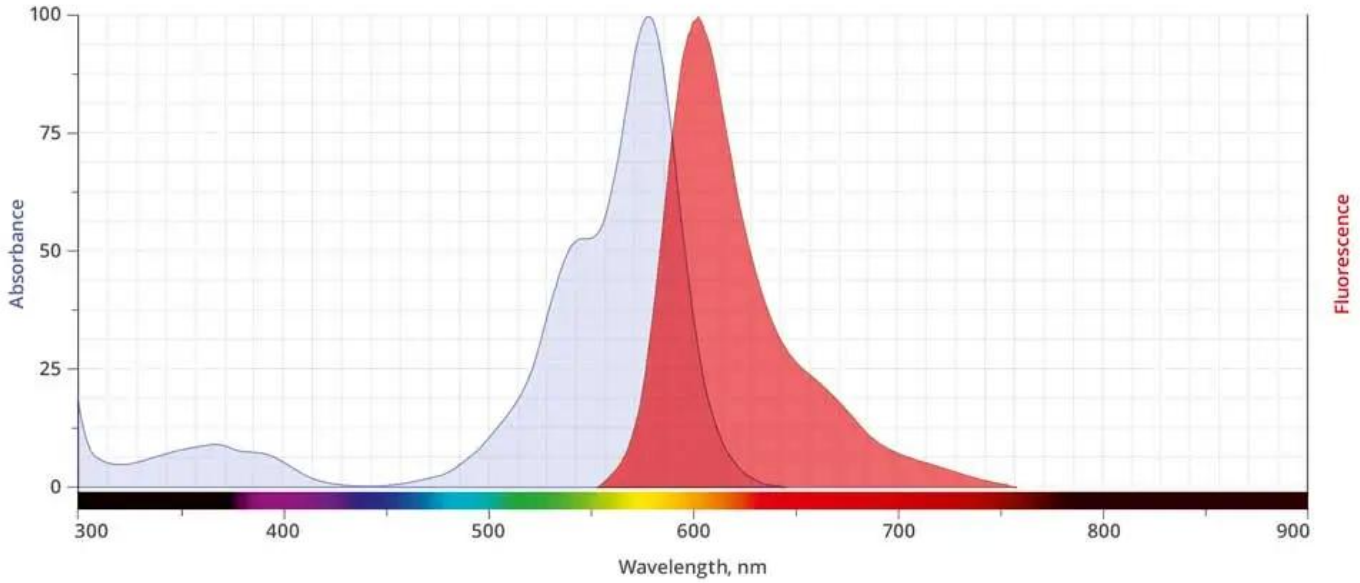
AZDye 568™ is a bright, and highly photostable, orange-fluorescent probe optimally excited by the 568 nm laser line on the Ar-Kr mixed-gas laser. This probe is water-soluble and its fluorescence is pH independent over a wide pH range. The brightness and photostability of this dye are best suited to direct imaging of low-abundance targets. AZDye™ 568 dye structurally is identical to Alexa Fluor® 568 Dye. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine core, including CF® 568 Dye, Alexa Fluor® 568.



Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg, 25 mg
Abs/Em Maxima	578/602 nm
Extinction Coefficient	88,000
Flow Cytometry Laser Line	532 nm or 568 nm
Microscopy Laser Line	532 nm or 568 nm
Spectrally Similar Dyes	Alexa Fluor® 568, CF® 568
Molecular weight	897.25
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Red solid

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Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature
