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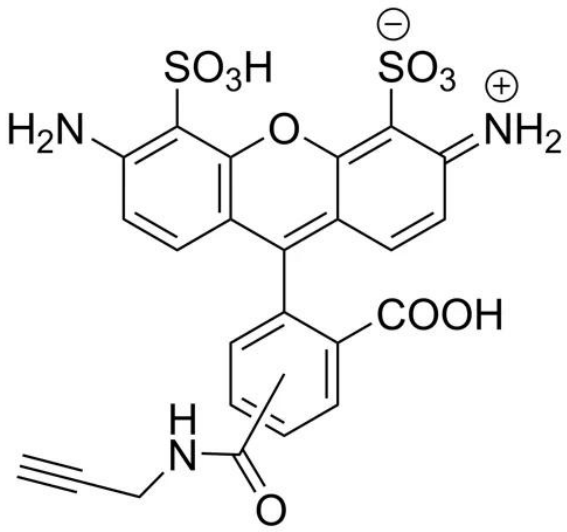
AZDYE 488 ALKYNE

SKU: CCT-1277



DESCRIPTION

AZDye™ 488 Alkyne is a bright, green-fluorescent alkyne-activated probe routinely used for imaging of low abundance azide-containing biomolecules. AZDye™ 488 Alkyne reacts with azides via a copper-catalyzed click reaction (CuAAC) to form a stable triazole linker. A probe for copper-less azide detection (AZDye™ 488 DBCO) is also available for application where the presence of copper is not acceptable.

AZDye™ 488 is a bright, and highly photostable, green-fluorescent probe optimally excited by the 488 nm laser line. This probe is water-soluble and its fluorescence is pH independent over a wide pH range. The brightness and photostability of blue dyes are best suited to direct imaging of low-abundance targets. AZDye™ 488 is structurally identical to Alexa Fluor® 488 Alkyne. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine 110 core, including DyLight® 488, Alexa Fluor® 488 and CF® 488 Dye.

For research use only. Not intended for therapeutic or diagnostic use in animals or humans.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	571.53 (protonated)
Appearance	Orange to light red solid
Extinction Coefficient	73,000
Purity	>95% (HPLC)
Unit Size	1 mg, 5 mg, 25 mg
Solubility	Water, DMSO, DMF
Storage Instructions	-20°C. Desiccate
Spectrally Similar Dyes	FAM, Alexa Fluor® 488, Atto™ 488, CF® 488A Dye, DyLight® 488
Laser Line	488 nm
Excitation/Emission Maximum	494/517 nm
Shipping Conditions	Ambient temperature
Shipping Instructions	Ambient temperature

ABS/EM SPECTRA

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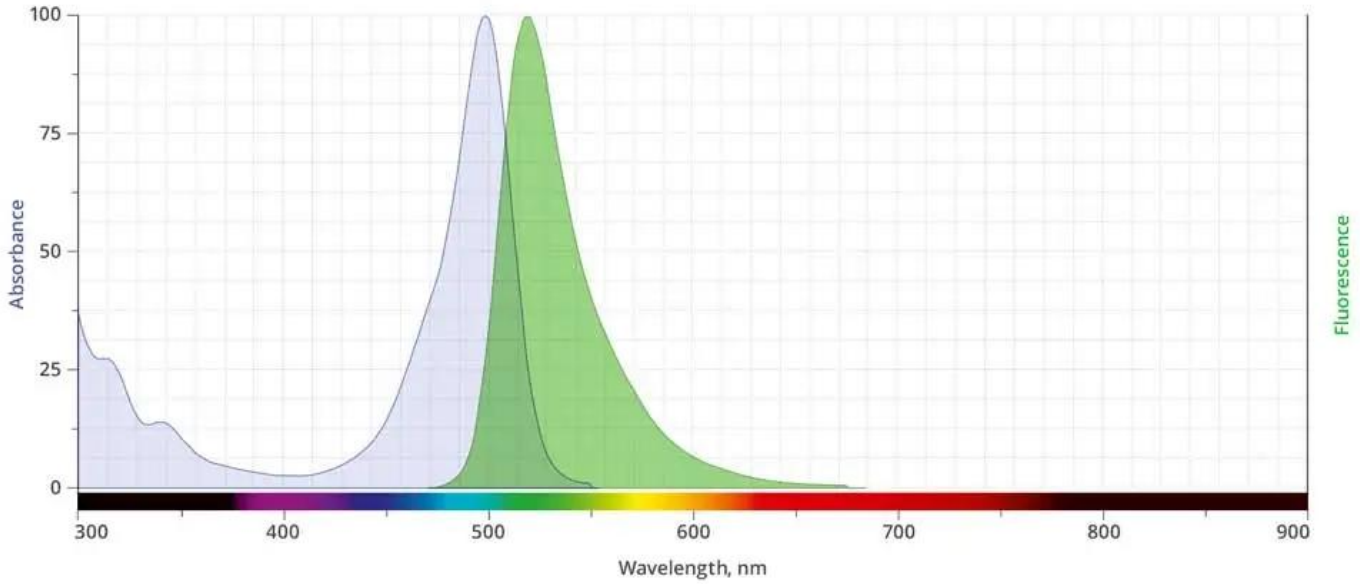

SELECTED REFERENCES

1. Tharp, J. M., *et al.* (2021). Genetic Encoding of Three Distinct Noncanonical Amino Acids Using Reprogrammed Initiator and Nonsense Codons. *ACS Chem Biol.*, **16 (4)**, 766-774. [PubMed]
2. Bruna, R. E., *et al.* (2021). Limitation of phosphate assimilation maintains cytoplasmic magnesium homeostasis. *Proc Natl Acad Sci U S A.*, **118 (11)**, e2021370118. [PubMed]
3. Kwong, J. Q., *et al.* (2021). Mitochondrial functional resilience after TFAM ablation in the adult heart. *Am J Physiol Cell Physiol.*, **320 (6)**, C929-C942. [PubMed]
4. Schuler, D., *et al.* (2021). Differential Labeling of Chemically Modified Peptides and Lipids among Cyanobacteria Planktothrix and Microcystis. *Microorganisms*, **9**, 1578. [MDPI]

DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

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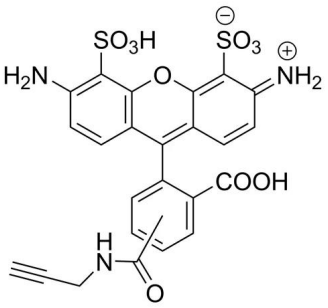
GALLERY IMAGES



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