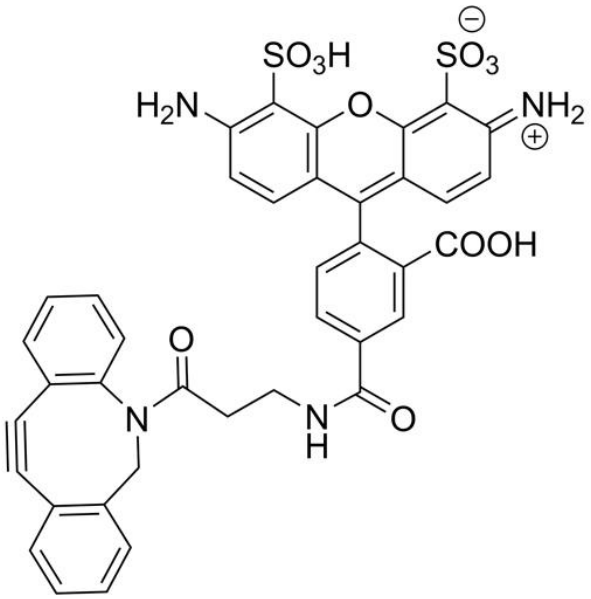
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AZDYE 488 DBCO

SKU: CCT-1278



DESCRIPTION

AZDye™ 488 DBCO is a water-soluble, green-fluorescent probe for copper-less detection of azide-tagged biomolecules. In application where the presence of copper is a concern AZDye™ 488 DBCO is an ideal alternative to copper requiring fluorescent alkynes.

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. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine 110 core, including DyLight® 488, CF® 488 Dye and Alexa Fluor® 488.

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

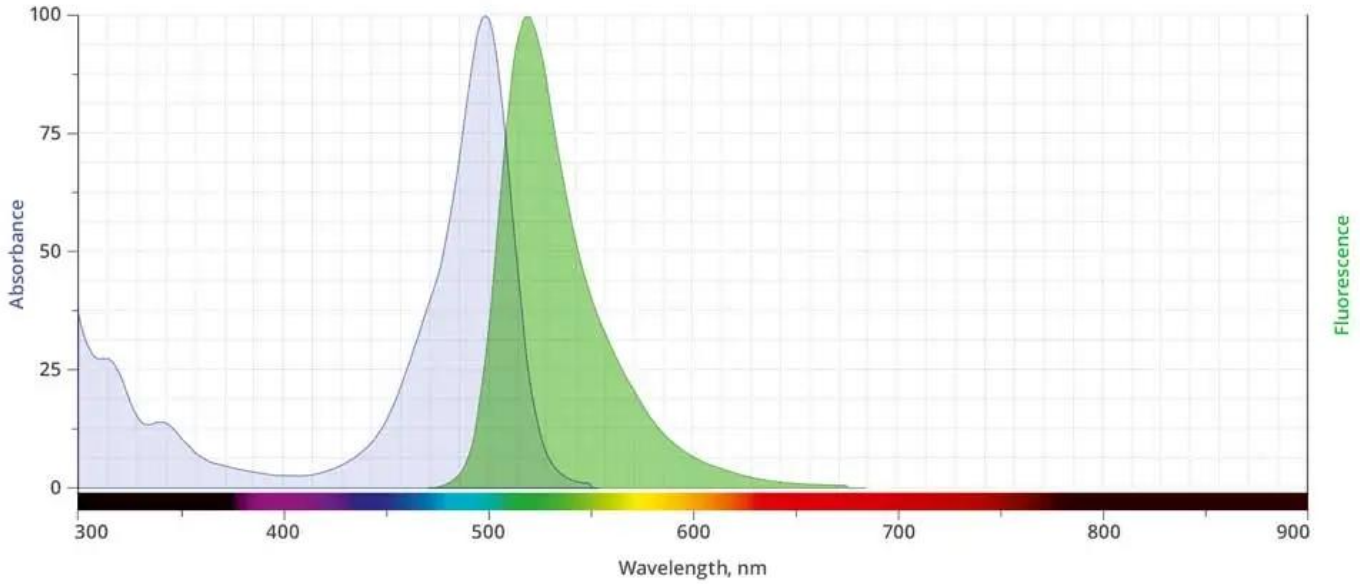
DyLight® and Alexa Fluor® are registered trademarks of Thermo Fisher Scientific. CF® Dye is a registered trademarks of Biotium Inc.

SPECIFICATIONS

CAS Number	N/A
Molecular Weight	792.12 (protonated)
A260 Correction Factor	0.35
A280 Correction Factor	0.19
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. Loebel , C., *et al.* (2022). Metabolic labeling of secreted matrix to investigate cell-material interactions in tissue engineering and mechanobiology. *Nat Protoc.*, **10.1038**, Online ahead of print. [PubMed]
2. Lancien, M., *et al.* (2020). A snake toxin as a theranostic agent for the type 2 vasopressin receptor. *Theranostics.*, **10 (25)**, 11580-11594. [PubMed]
3. Simon P. Wisnovsky, *et al.* (2020). Metabolic precision labeling enables selective probing of O-linked N-acetylgalactosamine glycosylation. *PNAS,* **117 (41)**, 25293-25301. [PNAS]
4. Loebel, C., *et al.* (2020). Metabolic Labeling to Probe the Spatiotemporal Accumulation of Matrix at the Chondrocyte–Hydrogel Interface. *Adv. Funct. Mater.* [PubMed]
5. Loebel, C., *et al.* (2019). Local nascent protein deposition and remodelling guide mesenchymal stromal cell mechanosensing and fate in three-dimensional hydrogels. *Nature Materials,* **18**, 883-891. [PubMed]

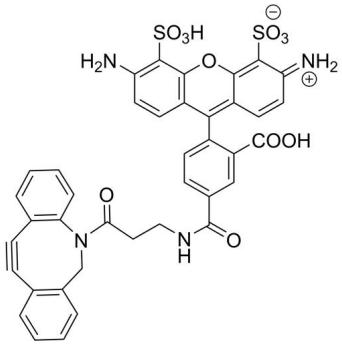
DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

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GALLERY IMAGES



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