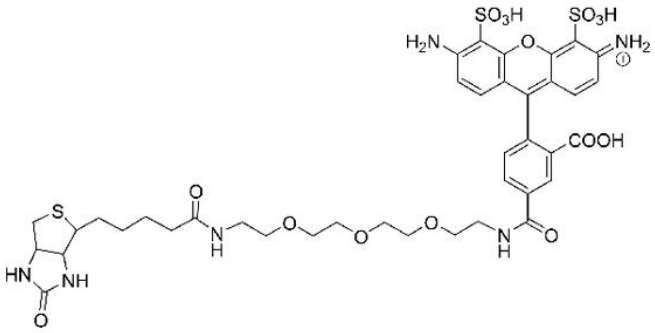
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

AZDYE 488 BIOTIN

SKU: CCT-1395



Description

AZDye™ 488 Biotin can be used for detecting and quantifying biotin binding sites of avidin, streptavidin or neutravidin. This reagent overcomes major shortcomings of commonly used Biotin-4-fluorescein – poor solubility in aqueous media and pH dependent absorbance and emission. AZDye™ 488 Biotin is a water soluble reagent and its green fluorescence is pH independent from pH 4 to pH 10. A flexible PEG3 spacer between biotin moiety and fluorescent tag minimize steric hindrance involved in binding to avidin, streptavidin or neutravidin.

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, Alexa Fluor® 488, and CF® 488A.

DyLight® and Alexa Fluor® are a registered trademark of Thermo Fisher Scientific.

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

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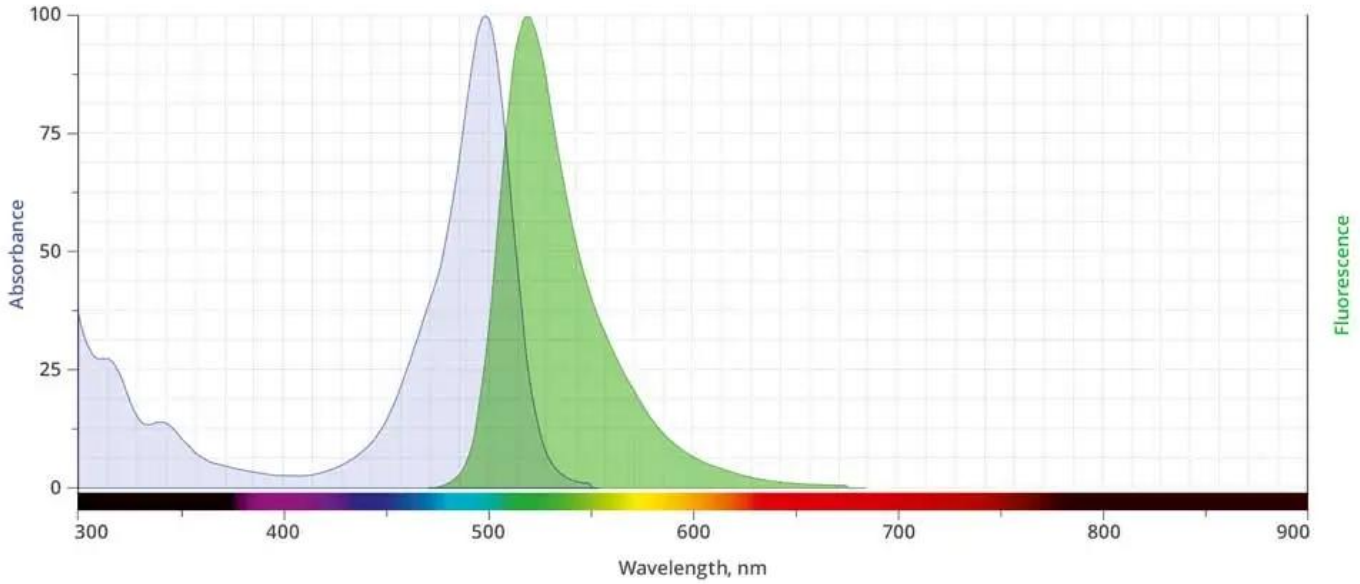

Abs/Em Spectra

Specifications

Unit Size	1 mg, 5 mg
Abs/Em Maxima	494/517 nm
Extinction Coefficient	73,000
Flow Cytometry Laser Line	488 nm
Microscopy Laser Line	488 nm
Spectrally Similar Dyes	FAM, Alexa Fluor® 488, Atto™ 488, CF® 488A Dye, DyLight® 488
Molecular weight	935.00 (protonated)
CAS	N/A
Solubility	Water, DMSO, DMF
Purity	>95% (HPLC)
Appearance	Orange to light red solid
Storage Conditions	-20°C. Desiccate
Shipping Conditions	Ambient temperature