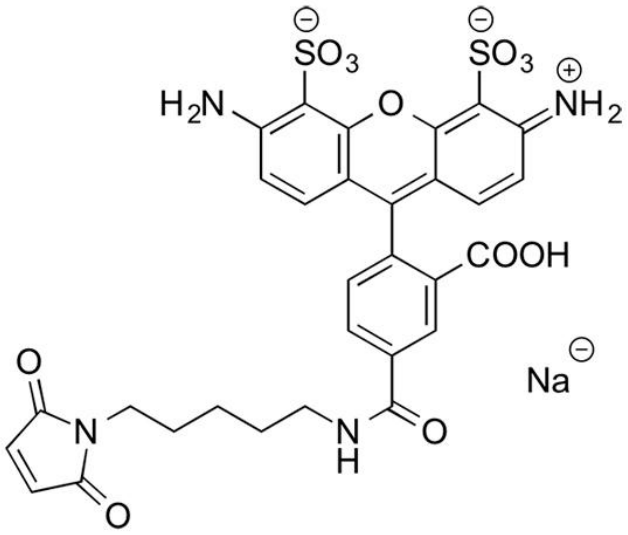
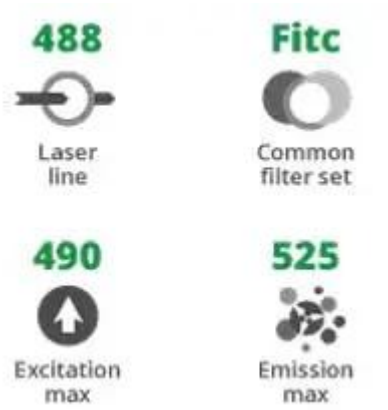
www.vectorlabs.com
Email: customerservice@vectorlabs.com
Telephone: (650) 697-3600

# AZDYE 488 MALEIMIDE

**SKU:** FP-1014




## DESCRIPTION




AZDye™ 488 is a green-fluorescent, water-soluble dye with pH insensitive emission from pH 4 to pH 10. This dye is ideally suited to the 488 nm laser line. AZDye 488 is one of the brightest dyes commercially available with fluorescence quantum yield close to 100%. AZDye™ 488 Maleimide

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

dye is structurally identical to Alexa Fluor® 488 C5 Maleimide dye. Its absorption/emission spectra is a perfect match to spectra of many other fluorescent dyes based on sulfonated rhodamine 110 core, including CF®488 Dye, DyLight® 488 and Alexa Fluor® 488.

Maleimide is the most popular sulfhydryl-reactive reactive group for conjugating the dye to either a thiol group on a protein, oligonucleotide thiophosphate, or low molecular weight ligand. The maleimide group specifically and efficiently reacts with reduced thiols (sulfhydryl groups, –SH) at pH 6.5 to 7.5 to form stable thioether bonds. The resulting conjugates exhibit brighter fluorescence and greater photostability than the conjugates of many other spectrally similar fluorophores.

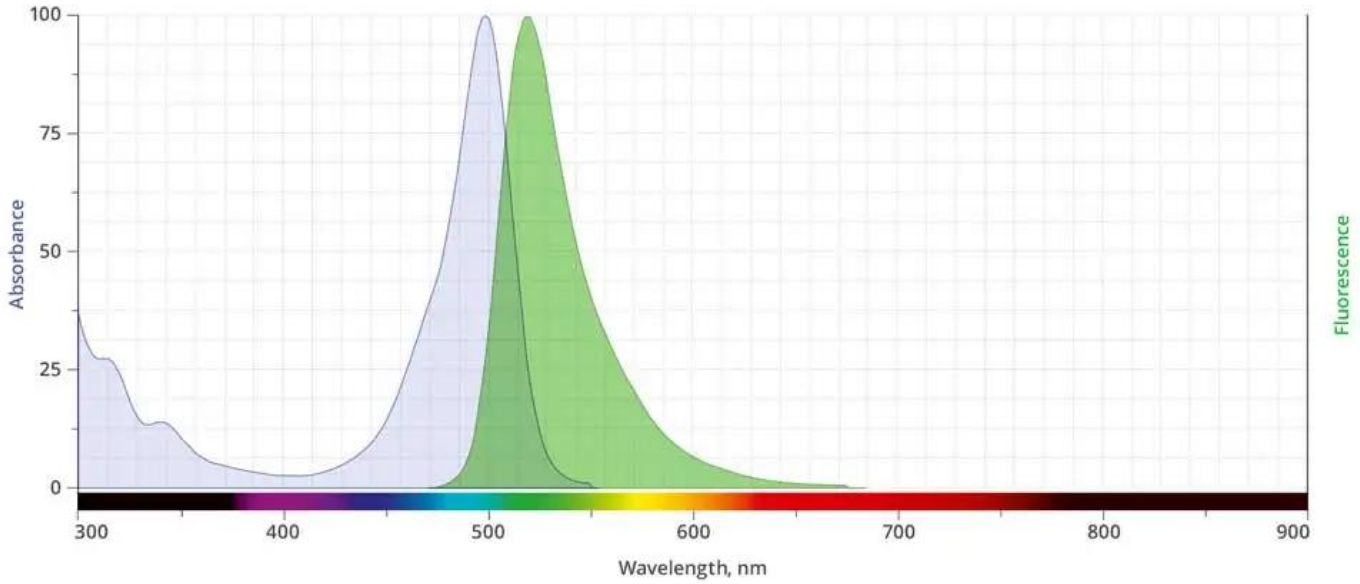
# SPECIFICATIONS

| | |
|---|---|
| **Molecular Weight** | 698.67 (protonated) |
| **Extinction Coefficient** | 72,000 cm-1M-1 |
| **Reactivity** | Thiol (Cys) |
| **Unit Size** | 1 mg, 5 mg, 25 mg, 100 mg |
| **Solubility** | Water, DMSO, DMF |
| **Storage Instructions** | -20°C. |
| **Spectrally Similar Dyes** | Alexa Fluor® 488, DyLight® 488, Fluorescein, Oregon Green 488 |
| **Excitation/Emission Maximum** | 493/516 nm |
| **Shipping Conditions** | Ambient temperature |
| **Shipping Instructions** | Ambient temperature |

# ABS/EM SPECTRA

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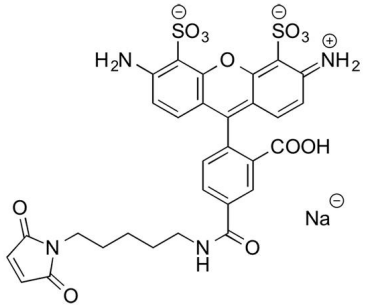
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## DOCUMENTS

- Safety Data Sheet
- Download CoA
- Datasheet

## GALLERY IMAGES




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