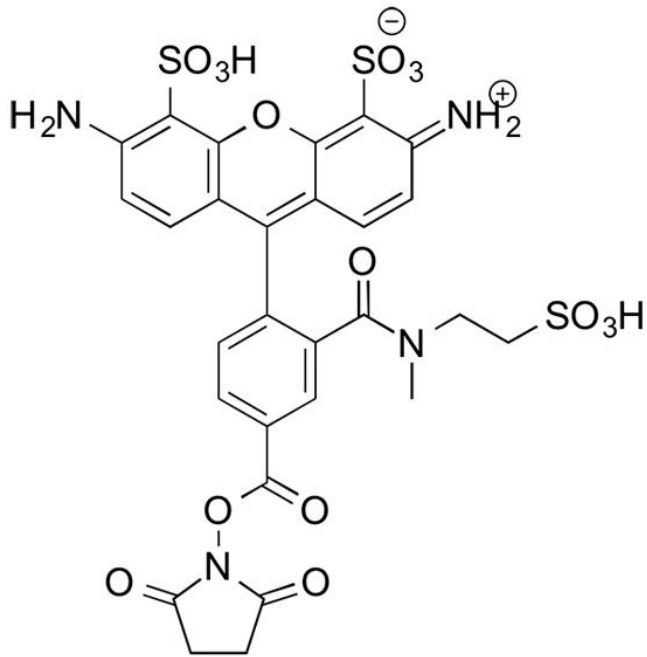




## **MB 488 NHS ESTER**

**SKU:** FP-1601



## **DESCRIPTION**



**488**

Laser  
line

**Fitc**



Common  
filter set

**490**



Excitation  
max

**525**



Emission  
max

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



MB™ 488 is a very hydrophilic, water-soluble green emitting dye. Structurally related to Alexa Fluor® 488 dye, MB™ 488 dye is a next step in improving water solubility, brightness and minimizing self-quenching. Characteristic features of the label are strong absorption, high fluorescence quantum yield, and very high photostability. MB™ 488 is a highly suitable dye for single-molecule detection applications and high-resolution microscopy such as PALM, dSTORM, STED etc. Additionally MB™ 488 is an excellent dye for flow cytometry (FACS), fluorescence in-situ hybridization (FISH) and many other applications.

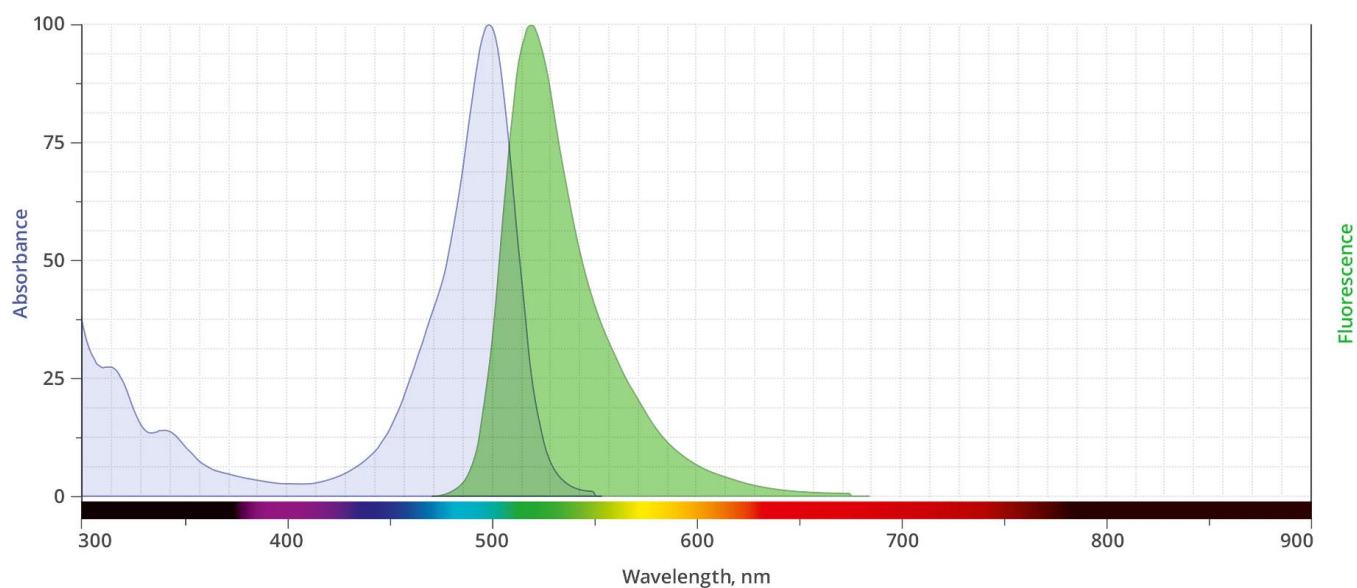
The NHS Ester reacts specifically and efficiently with a primary amine (e.g., side chain of lysine residues or aminosilane-coated surfaces) at pH 7-9 to form a stable, covalent amide bond. The NHS ester (or succinimidyl ester) is the most popular tool for conjugating dyes to the primary amines of protein or antibody (Lys), amine-modified oligonucleotides, and other amine-containing molecules.

## SPECIFICATIONS

<b>Molecular Weight</b>	752.69
<b>Extinction Coefficient</b>	86,000 cm <sup>-1</sup> M <sup>-1</sup>
<b>Reactivity</b>	Primary amine
<b>Unit Size</b>	1 mg, 5 mg, 25 mg, 100 mg
<b>Solubility</b>	Water, DMSO, DMF
<b>Storage Instructions</b>	-20°C.
<b>Spectrally Similar Dyes</b>	Alexa Fluor® 488, DyLight® 488, Fluorescein, Oregon Green 488
<b>Excitation/Emission Maximum</b>	501/524 nm
<b>Shipping Conditions</b>	Ambient temperature
<b>Shipping Instructions</b>	Ambient temperature

## ABS/EM SPECTRA

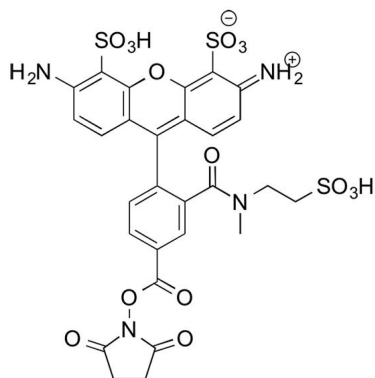
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## DOCUMENTS

- [Safety Data Sheet](#)
- [Datasheet](#)

## GALLERY IMAGES



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