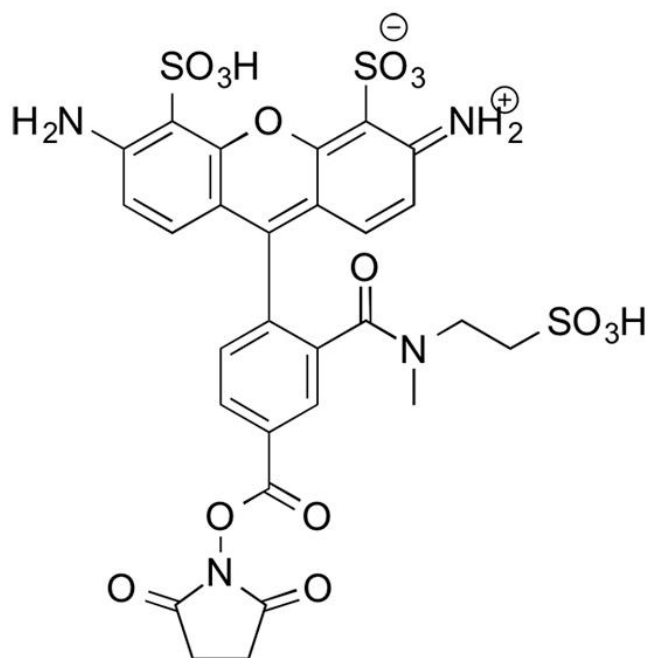


MB 488 NHS ESTER

SKU: FP-1601



Description



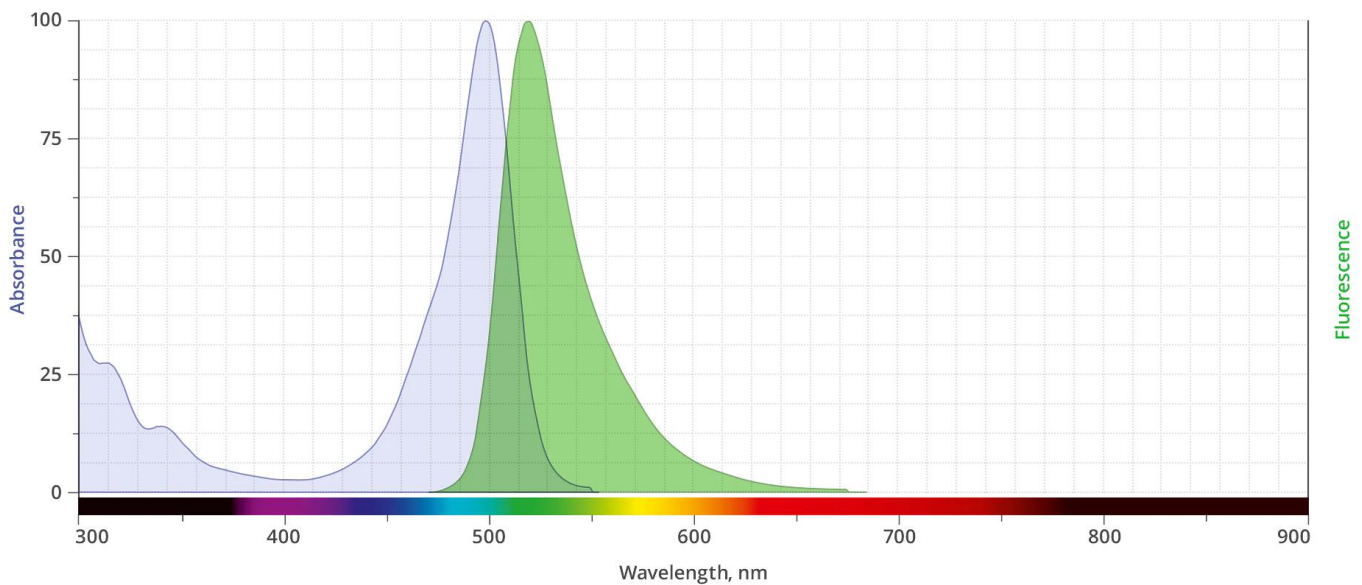
MB™ 488 is a very hydrophilic, water-soluble green emitting dye. Structurally related to Alexa Fluor® 488 dye, MB™ 488 dye is a next step in improving water solubility, brightness and minimizing self-quenching. Characteristic features of the label are strong absorption, high fluorescence quantum yield, and very high photostability. MB™ 488 is a highly suitable dye for

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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.

Abs/Em Spectra



Specifications

Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Reactivity	Primary amine
Abs/Em Maxima	501/524 nm
Extinction coefficient	86,000 cm ⁻¹ M ⁻¹
Solubility	Water, DMSO, DMF
Spectrally similar dyes	Alexa Fluor® 488, DyLight® 488, Fluorescein, Oregon Green 488
Molecular weight	752.69
Storage Conditions	-20°C.

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Shipping Conditions Ambient temperature

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