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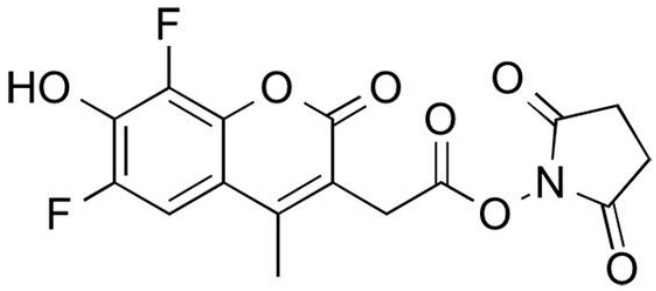
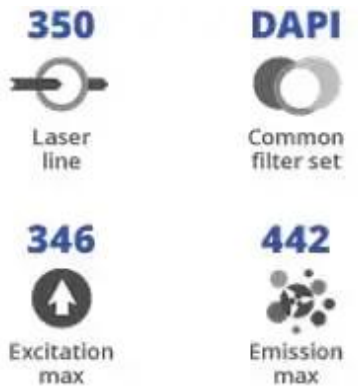
6,8-DIFLUORO-7-HYDROXY-4-METHYLCOUMARIN NHS ESTER

SKU: FP-1242



Description



6,8-Difluoro-7-hydroxy-4-methylcoumarin NHS Ester (Marina Blue® NHS Ester) exhibit bright blue fluorescence emission near 460 nm is optimally excited by the intense 365 nm spectra line of the mercury-arc lamp and detect optimally with DAPI optical filter sets. Because the pKa value of 6,8-Difluoro-7-hydroxy-4-methylcoumarin derivatives are 2-3 log units lower compared to those of the corresponding 7-hydroxycoumarin conjugates, 6,8-Difluoro-7-hydroxy-4-methylcoumarin conjugates are strongly fluorescent even at neutral pH.

6,8-Difluoro-7-hydroxy-4-methylcoumarin 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.

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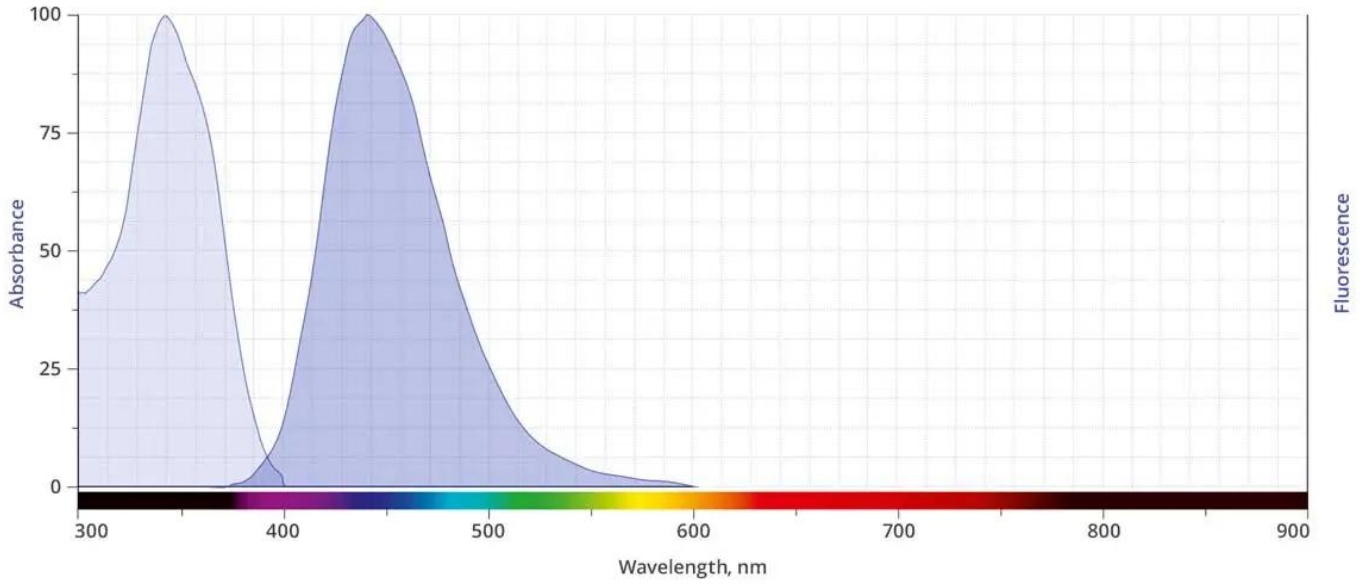

Abs/Em Spectra

Specifications

Unit Size	5 mg, 25 mg, 100 mg
Reactivity	Primary amines
Abs/Em Maxima	365/460 nm
Extinction coefficient	19,000 cm-1M-1
Solubility	DMSO, DMF
Spectrally similar dyes	Alexa Fluor® 350, AMCA, DyLight® 350
Molecular weight	367.26
Storage Conditions	-20°C.
Shipping Conditions	Ambient temperature

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