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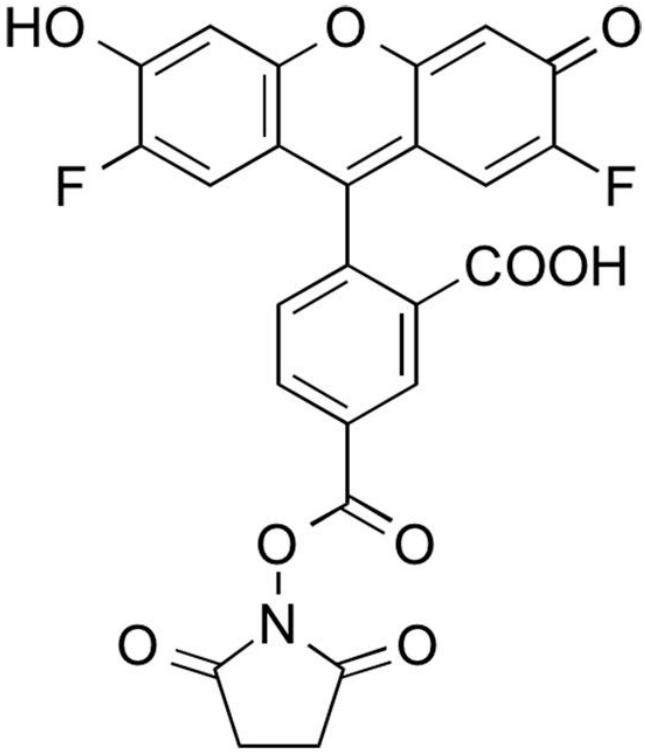
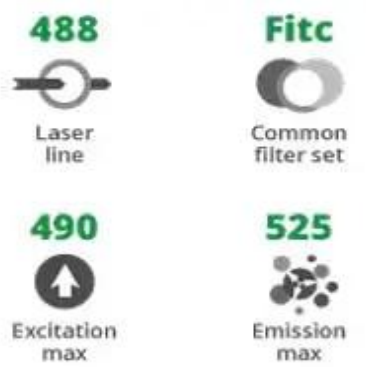
DIFLUOROCARBOXYFLUORESCEIN NHS ESTER, 5-ISOMER

SKU: FP-1222



Description



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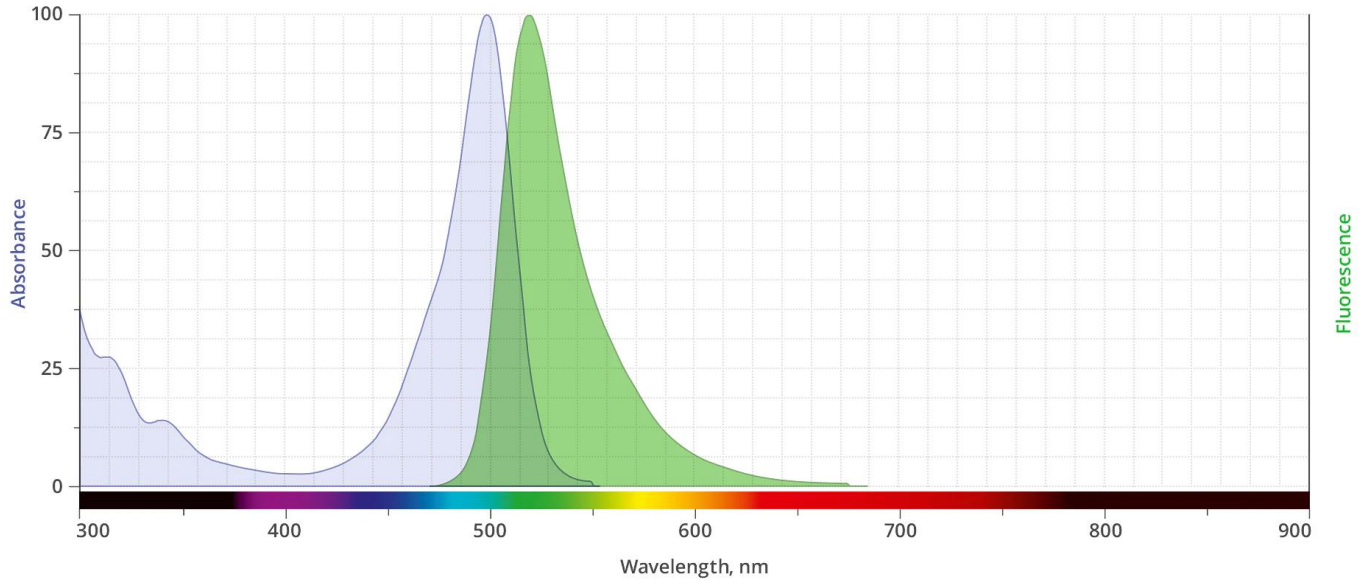
Difluorocarboxyfluorescein NHS Ester, 5-isomer (Oregon Green™ 488 Carboxylic Acid, Succinimidyl Ester, 5-isomer equivalent) is an amine-reactive fluorinated analog of fluorescein that overcomes some of the key limitations of fluorescein, including greater photostability and a lower pKa (pKa ~ 4.7 versus 6.4 for fluorescein), making its fluorescence essentially pH insensitive in the physiological pH range.

Although the mixed isomers of Difluorocarboxyfluorescein NHS Ester, is a preferred, routinely used fluorescent dye for labeling proteins, peptides and nucleotides, purification of peptide and nucleotides labeled with 5(6) isomers might be troublesome due to significant signal broadening in HPLC purification. Peptides and nucleotides labeled with a single isomer usually give better resolution in HPLC purification that is often required in the conjugation processes.

Abs/Em Spectra



Specifications

Unit Size	1 mg, 5 mg, 25 mg, 100 mg
Reactivity	Primary amine
Abs/Em Maxima	496/524 nm
Extinction coefficient	73,000 cm-1M-1
Solubility	DMSO, DMF
Spectrally similar dyes	Alexa Fluor® 488, DyLight® 488, Fluorescein
Molecular weight	509.38

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Storage Conditions -20°C.

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