



Genemed Synthesis, Inc.

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Super Fluor™ 488 succinimidyl ester

Cat #	FD-1023	Unit Size	1 mg
MW			
Ex (nm)	494	Em (nm)	518
Solvent	DMF	Storage	F/D/L

Although FITC is still the most popular fluorescent labeling dye for preparing green fluorescent bioconjugates, there are quite a few limitations (such as severe photobleaching for microscope imaging and pH-sensitive fluorescence). With spectra essentially identical to those of fluorescein-based labeling dyes, Superfluor 488 dyes are considered to be one of the best green-fluorescent reactive dyes available due to its far greater fluorescence of its conjugates and significantly better photostability. Protein conjugates prepared with Superfluor 488 dyes are far superior to conjugates of fluorescein derivatives such as FITC. Not only are Superfluor 488 conjugates significantly brighter than fluorescein conjugates, they are much more photostable. Additionally, the fluorescence of Superfluor™ 488 fluorophore is independent of pH from 4 to 10. This pH insensitivity is a major improvement over fluorescein, which emits its maximum fluorescence only above pH 10. Superfluor 488 fluorophore is also used to develop fluorescent probes for fluorescence polarization-based assays.